SEQUENCE LISTING

<110> Stolk, John A.
      Molesh, David Alan
      Fling, Steven P.
      Xu, Jiangchun

<120> COMPOSITIONS AND METHODS FOR THE THERAPY
      AND DIAGNOSIS OF OVARIAN CANCER

<130> 210121.484C6

<140> US
<141> 2001-10-02

<160> 215

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 303, 370, 377, 382
<223> n = A,T,C or G

<400> 1
caacctcact agtaaatgaa agaaatattg taatttgtat ttgatctgct gggtctttgg 60
agtcagaact ggtttttatca gcagtttgat cttctgaggt ctggtatgta gtttgctggc 120
ccacagaacc ttcacgtgta ttcacagcct caatgccata aggaaactct tttagaagtt 180
ctgacagctg gtcatgtagg tataagacag gtgccttatc actgtggatt tcatttcttg 240
caggatcttg gggagtatag ttgctggatg catctatttc ctgagggtaa atatcctcct 300
ggncgacgcg gccgctcgag tctagagggc ccgtttaaac ccgctgatca gcctcgactg 360
tgccttctan ttgccancca tntgttgttt gcccct 396

<210> 2
<211> 396
<212> DNA
<213> Homo sapiens

<400> 2
cgaccaaaaa gtaaactcca agtgaacatc aaatcaaatc taatcctttt ggccacatga 60
ctggttgttc tttatctcat agttacaatg aatcatataa actgtagact gccactacca 120
cgatacttct gtgacacaga aggaatgtcc tatttgccta tctatctgag gaatgttaaa 180
tagagaaaaa tagattataa aacaacctgg aggtcacagg attctgagat aatccctctg 240
ttaaaaaaca tctgaacagc aaatgtccaa tctgtaataa aatagttaaa ggtccaagtc 300
aagtccactt ctacttggct ggcccagcac aagaaatcta acagcacttt gtaatcattt 360
tgcttttcta attttcccgg aggacatggg ccattg 396

```
<210> 3
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 22, 28, 29, 30, 33, 36, 41, 43, 45, 46, 53, 56, 58, 61, 64,
69, 70, 74, 75, 78, 83, 84, 85, 102, 143, 335
<223> n = A,T,C or G

<400> 3
cgcccttttt tttttttttt tnattggnnn aantcncttt nantnnaaaa acntgnangg 60
naancccann cccnnggnac cannnccagg agttgggtgg anactgagtg gggtttgtgt 120
gggtgagggg gcatctactc ctnttgcaac aagccaaaag tagaacagcc taaggaaaag 180
tgacctgcct tggagcctta gtccctccct tagggccccc tcagcctacc ctatccaagt 240
ctgaggctat ggaagtctcc ctcctagttc actagcaggt tccccatctt ttccaggctg 300
cccctagcac tccacgtttt tctgaaaaaa tctanacagg cccttttggg gtacctaaaa 360
cccagctgag gttgtgagct tgtaaggtaa agcaag                          396


<210> 4
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 13, 15, 21, 27, 34, 37, 41, 57, 58, 59, 63, 64, 71, 72, 77,
78, 83, 87, 93, 170, 207, 210, 308, 379, 382, 389, 391,
392, 393, 395
<223> n = A,T,C or G

<400> 4
gaccaatcct tgncncacta ncaaaangac cccnctnacc nccaggaact gaacctnnnt 60
gtnnacctcc nnctgcnnag ccntatntcc aanatcaccc accgtatcca ctgggaatct 120
gccagcctcc tgcgatcaga agagaccaat cgaaaatgag ggtttcacan tcacagctga 180
aggaaaaggc caaggcacct tgtcggnggn gacaatgtac catgctaagg ccaaagatca 240
actcacctgt aataaattcg acctcaaggt caccataaaa ccagcaccgg aacagaaaaa 300
gaggcctnag gatgcccaag aaacactttt gatcctttga aaactgtacc aaggtaccgg 360
ggggagaccc aggaaaggnc cnttatgtnt nnntnt                          396


<210> 5
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 135, 172, 343, 348, 354, 395
<223> n = A,T,C or G

<400> 5
gacgccggag ctgccgcgcc agtcgcctag caggtcctct accggcttat tcctgtgccg 60
```

```
gatcttcatc ggcacagggg ccactgagac gtttctgcct ccctctttct tcctccgctc 120
tttctcttcc ctctngttta gtttgcctgg gagcttgaaa ggagaaagca cnggggtcgc 180
cccaaaccct ttctgcttct gcccatcaca agtgccacta ccgccatggg cctcactatc 240
tcctccctct tctcccgact atttggcaag aagcagatgc gcattttgat ggttggattg 300
gatgctgctg gcaagacaac cattcttgat aaactgaaag tanggganat aagnaccacc 360
atttctacca ttgggtttaa tgggggaaac agtana                            396
```

<210> 6
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 212
<223> n = A,T,C or G

<400> 6
```
acgggaggcg ccgggaagtc gacggcgccg gcggctcctg caggaggcca ctgtctgcag 60
ctcccgtgaa gatgtccact ccagacccac ccctgggcgg aactcctcgg ccaggtcctt 120
ccccgggccc tgcccttccc ctggagccat gctgggccct agcccgggtc cctcgccggg 180
ctccgcccac agcatgatgg ggcccagccc angggccgcc ctcagcagga caccccatcc 240
ccacccaggg gcctggaggg taccctcagg acaacatgca ccagatgcac aagcccatgg 300
agtccatgca tgagaagggc atgtcggacg acccgcgcta caaccagatg aaaggaatgg 360
ggatgcggtc aggggccat gctgggatgg ggcccc                            396
```

<210> 7
<211> 396
<212> DNA
<213> Homo sapiens

<400> 7
```
acccgagagt cgtcgggggtt tcctgcttca acagtgcttg gacggaaccc ggcgctcgtt 60
ccccacccccg gccggccgcc catagccagc cctccgtcac ctcttcaccg caccctcgga 120
ctgccccaag gcccccgccg ccgctccagc gccgcgcagc caccgccgcc gccgccgcct 180
ctccttagtc gccgccatga cgaccgcgtc cacctcgcag gtgcgccaga actaccacca 240
ggactcagag gccgccatca accgccagat caacctggag ctctacgcct cctacgttta 300
cctgtccatg tcttactact ttgaccgcga tgatgtggct ttgaagaact ttgccaaata 360
ctttcttcac caatctcatg aggagaggga acatgc                            396
```

<210> 8
<211> 396
<212> DNA
<213> Homo sapiens

<400> 8
```
cgacaacaag gttaatacct tagttcttaa catttttttt ctttatgtgt agtgttttca 60
tgctaccttg gtaggaaact tatttacaaa ccatattaaa aggctaattt aaatataaat 120
aatataaagt gctctgaata aagcagaaat atattacagt tcattccaca gaaagcatcc 180
aaaccaccca aatgaccaag gcatatatag tatttggagg aatcaggggt ttggaaggag 240
tagggaggag aatgaaggaa aatgcaacca gcatgattat agtgtgttca tttagataaa 300
agtagaaggc acaggagagg tagcaaaggc caggcttttc tttggttttc ttcaaacata 360
ggtgaaaaaa acactgccat tcacaagtca aggaac                            396
```

<210> 9
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 321, 344
<223> n = A,T,C or G

<400> 9
tcgacatcgc ggcaactttt tgcggattgt tcttgcttcc aggctttgcg ctgcaaatcc 60
agtgctacca gtgtgaagaa ttccagctga acaacgactg ctcctccccc gagttcattg 120
tgaattgcac ggtgaacgtt caagacatgt gtcagaaaga agtgatggag caaagtgccg 180
ggatcatgta ccgcaagtcc tgtgcatcat cagcggcctg tctcatcgcc tctgccgggt 240
accagtcctt ctgctcccca gggaaactga actcagtttg catcagctgc tgcaacaccc 300
ctctttgtaa cgggccaagg nccaaaaaaa ggggaaagtt ctgncctcgg ccctcaggcc 360
agggctccgc accaccatcc tgttcctcaa attagc   396

<210> 10
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 115, 116, 117, 130, 138, 142, 143, 144, 145, 146, 153, 157,
158, 159, 160, 164, 175, 176, 177, 178, 179, 183, 187, 197,
198, 202, 203, 204, 205, 206, 211, 212, 213, 215, 216, 217,
220, 221, 222, 226, 231, 234, 236, 237, 245, 246, 247
<223> n = A,T,C or G

<221> misc_feature
<222> 250, 255, 264, 266, 267, 268, 269, 270, 271, 272, 279, 284,
297, 303, 304, 305, 308, 315, 317, 318, 319, 320, 321, 322,
323, 333, 334, 337, 338, 342, 343, 368, 372, 374, 380, 381,
391, 395
<223> n = A,T,C or G

<400> 10
cctttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt ttttaaaaaa aaaannnttt 120
tttttttttn aaaaaaangg gnnnnntttt ttncccnnnn gggnggggggg ggggnnnnnt 180
ttnaaanaaa aaaaccnnaa annnnngggg nnnannnaan nncccncccc naancnntaa 240
aaaannnggn aaaanagggg gggnannnnn nngggggggna aaantttttt tttttttnaag 300
ggnnnggnaa aaaantnnnn nnnttttttt ttnnaanngg gnnaaaaaaa aaaaaaaaaa 360
attttttngg gntnagggggn nggggggaaaa ncccna   396

<210> 11
<211> 396
<212> DNA
<213> Homo sapiens

<400> 11

```
agaacacagg tgtcgtgaaa actacccta  aaagccaaaa tgggaaagga aaagactcat 60
atcaacattg tcgtcattgg acacgtagat tcgggcaagt ccaccactac tggccatctg 120
atctataaat gcggtggcat cgacaaaaga accattgaaa aatttgagaa ggaggctgct 180
gagatgggaa agggctcctt caagtatgcc tgggtcttgg ataaactgaa agctgagcgt 240
gaacgtggta tcaccattga tatctccttg tggaaatttg agaccagcaa gtactatgtg 300
actatcattg atgccccagg acacagagac tttatcaaaa acatgattac agggacatct 360
caggctgact gtgctgtcct gattgttgct gctggt                          396
```

```
<210> 12
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<400> 12
cgaaaacctt taaaccccgg tcatccggac atcccaacgc atgctcctgg agctcacagc 60
cttctgtggt gtcatttctg aaacaagggc gtggatccct caaccaagaa gaatgtttat 120
gtcttcaagt gacctgtact gcttggggac tattggagaa aataaggtgg agtcctactt 180
gtttaaaaaa tatgtatcta agaatgttct agggcactct gggaacctat aaaggcaggt 240
atttcgggcc ctcctcttca ggaatcttcc tgaagacatg gcccagtcga aggcccagga 300
tggcttttgc tgcggccccg tggggtagga gggacagaga gacagggaga gtcagcctcc 360
acattcagag gcatcacaag taatggcaca attctt                          396
```

```
<210> 13
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<400> 13
accacaggct ggccacaaga agcgctggag tgtgctggcg gctgcaggcc tacggggcct 60
ggtccggctg ctgcacgtgc gtgccggctt ctgctgcggg gtcatccgag cccacaagaa 120
ggccatcgcc accctgtgct tcagccccgc ccacgagacc catctcttca cggcctccta 180
tgacaagcgg atcatcctct gggacatcgg ggtgcccaac caggactacg aattccaggc 240
cagccagctg ctcacactgg acaccacctc tatcccctg cgcctctgcc ctgtcgcctc 300
ctgcccggac gcccgcctgc tggccggctg cgagggcggc tgctgctgct gggacgtgcg 360
gctggaccag ccccaaaaga ggagggtgtg tgaagt                          396
```

```
<210> 14
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<400> 14
acggcgtcct cgtggaagtg acatcgtctt taaaccctgc gtggcaatcc ctgacgcacc 60
gccgtgatgc ccagggaaga cagggcgacc tggaagtcca actacttcct taagatcatc 120
caactattgg atgattatcc gaaatgtttc attgtgggag cagacaatgt gggctccaag 180
cagatgcagc agatccgcat gtcccttcgc gggaaggctg tggtgctgat gggcaagaac 240
accatgatgc gcaaggccat ccgagggcac ctggaaaaca acccagctct ggagaaactg 300
ctgcctcata tccggggggaa tgtgggcttt gtgttcacca aggaggacct cactgagatc 360
agggacatgt tgctggccaa taaggtgcca gctgct                          396
```

```
<210> 15
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 333
<223> n = A,T,C or G

<400> 15
accgcgcggg cacagggtgc cgctgaccga ggcgtgcaaa gactccagaa ttggaggcat 60
gatgaagact ctgctgctgt ttgtggggct gctgctgacc tgggagagtg ggcaggtcct 120
gggggaccag acggtctcag acaatgagct ccaggaaatg tccaatcagg gaagtaagta 180
cgtcaataag gaaattcaaa atgcttgtca acggggtgaa acagataaag actctcatag 240
aaaaaacaaa cgaagagcgc aagacactgc tcagcaacct agaagaagcc aagaagaaga 300
aagaggatgc cctaaatgag accaggaat canagacaaa gctgaaggag ctcccaggag 360
                                                                  396
tgtgcaatga gaccatgatg gccctctggg aagagt
```

```
<210> 16
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 114, 121, 122, 123, 127, 134, 136, 138, 140, 141, 142, 143,
144, 148, 163, 166, 172, 173, 174, 176, 177, 183, 184, 185,
187, 195, 196, 198, 199, 202, 203, 206, 213, 214, 215, 216,
217, 218, 219, 223, 225, 226, 227, 229, 230, 236, 238
<223> n = A,T,C or G

<221> misc_feature
<222> 239, 252, 256, 257, 261, 262, 268, 269, 273, 278, 280, 288,
289, 290, 292, 293, 303, 312, 325, 327, 333, 335, 336, 341,
342, 347, 354, 359, 365, 371, 383, 384, 386, 388, 391
<223> n = A,T,C or G

<400> 16
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttngggggg 120
nnnaaanttt tttntnanan nnnngggnaa aaaaaaaaaa aanaangggg gnnntnnggc 180
ccnnnanaaa aaaanngnna annaancccc ccnnnnnnnc ccncnnntnn ggaaananna 240
aaaccccccc cngggnnggg nnaaaaannc ccnggggnan tttttatnnn annccccccc 300
ccnggggggg gnggaaaaaa aaaantnccc ccnannaaaa nnggggnccc cccnttttnc 360
                                                                  396
aaaangggggg nccgggcccc ccnnantntt nggggg
```

```
<210> 17
<211> 396
<212> DNA
<213> Homo sapiens

<400> 17
accacactaa ccatatacca atgatggcgc gatgtaacac gagaaagcac ataccaaggc 60
caccacacac cacctgtcca aaaaggcctt cgatacggga taatcctatt tattacctca 120
gaagtttttt tcttcgcagg atttttctga gccttttacc actccagcct agccccctacc 180
ccccaactag gagggcactg gcccccaaca ggcatcaccc cgctaaatcc cctagaagtc 240
ccactcctaa acacatccgt attactcgca tcaggagtat caatcacctg agctcaccat 300
```

```
agtctaatag aaaacaaccg aaaccaaata attcaagcac tgcttattac aattttactg 360
ggtctctatt ttaccctcct acaagcctca gagtac                           396
```

<210> 18
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 51, 54, 66, 81, 86, 98, 106, 111, 117, 124, 129, 133, 135,
150, 151, 154, 159, 161, 172, 179, 181, 183, 185, 220, 223,
229, 238, 258, 259, 264, 282, 289, 292, 294, 299, 303, 311,
315, 329, 343, 349, 351, 353, 361, 369, 370, 389, 392
<223> n = A,T,C or G

<221> misc_feature
<222> 396
<223> n = A,T,C or G

<400> 18
```
tttttttttt tttttttttt tttttttttt tttttttttt ttttttttta ntcnaaaggg 60
gaaggnccct ttttattaaa nttggncatt ttactttnct tttttnaaaa ngctaanaaa 120
aaanttttnt ttntncttaa aaaaaccctn natntcacna ncaaaaaaaa cnattcccnc 180
ntncnttttg tgataaaaaa aaaggcaatg gaattcaacn tancctaana aaactttncc 240
tgggaggaaa aaaaattnnt ccgnggggaa cacttggggc tntccaaant gnanccatnc 300
tangaggacc ntctntaaga tttccaaang aaaccccttc ctnccaaang nantacccg  360
ntgcctacnn cccataaaaa aaacctcanc cntaan                           396
```

<210> 19
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 47, 69, 75, 80, 83, 87, 88, 90, 92, 102, 104, 108, 116, 121,
130, 138, 139, 142, 153, 156, 158, 162, 165, 166, 180, 192,
193, 195, 201, 224, 226, 232, 235, 237, 241, 248, 251, 253,
256, 269, 272, 274, 277, 284, 287, 290, 292, 297
<223> n = A,T,C or G

<221> misc_feature
<222> 299, 305, 306, 315, 323, 324, 326, 332, 351, 368, 377, 380,
383, 387, 392
<223> n = A,T,C or G

<400> 19
```
tttttttttt tttttttttt tttttttttt tttttttttt tttttntgg tctgggcttt 60
tattttacna aaaanctaan ggnaaanntn cnttaaacta antngaanac aaagtnttaa 120
ngaaaaaggn ctgggggnnt cntttacaaa aanggncngg gncanntttg ggcttaaaan 180
ttcaaaaagg gnncntcaaa nggqtttgca tttgcatgtt tcancnctaa ancgnangaa 240
naaacccngg ngnccnctgg gaaaagttnt tnanctncca aaanatnaan tntttgnanc 300
agggnntttt tgggnaaaaa aannanttcc anaaactttc catccctgg ntttgggttc 360
```

396

```
ggccttgngt tttcggnatn atntccntta angggg
```

<210> 20
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 29, 43, 49, 53, 55, 75, 81, 100, 110, 111, 125, 129, 160,
162, 168, 246, 277
<223> n = A,T,C or G

```
<400> 20
tttttttttt tttttttttt ttttttctna acaaaccctg ttnttgggng ggngngggta 60
taatactaag ttganatgat ntcatttacg ggggaaggcn ctttgtgaan naggccttat 120
ttctnttgnc ctttcgtaca gggaggaatt tgaagtaaan anaaaccnac ctggattact 180
ccggtctgaa ctcaaatcac gtaggacttt aatcgttgaa caaacaaacc tttaatagcg 240
gctgcnccat tgggatgtcc tgatccaaca tcgaggncgt aaaccctatt gttgatatgg 300
actctaaaaa taggattgcg ctgttatccc tagggtaact tgttcccgtg gtcaaagtta 360
ttggatcaat tgagtataag tagttcgctt tgactg               396
```

<210> 21
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6, 9, 18, 23, 37, 43, 48, 55, 65, 73, 75, 103, 110, 117,
123, 125, 134, 153, 182, 195, 202, 205, 213, 216, 223, 239,
249, 276, 293, 294, 302, 307, 344, 356, 359, 369, 374, 381,
392
<223> n = A,T,C or G

```
<400> 21
acatanatnt tatactanca ttnaccatct cacttgnagg aanactanta tatcnctcac 60
acctnatatc ctncntacta tgcctagaag gaataatact atngctgttn attatancta 120
ctntnataac cctnaacacc cactccctct tanccaatat tgtgcctatt gccatactag 180
tntttgccgc ctgcnaagca gnggngggcc tanccntact agnctcaatc tccaacacnt 240
atggcctana ctacgtacat aacctaaacc tactcnaatg ctaaaactaa tcnncccaac 300
anttatntta ctaccactga catgactttc caaaaaacac atantttgaa tcaacncanc 360
cacccacanc ctanttatta ncatcatccc cntact                396
```

<210> 22
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 17, 244
<223> n = A,T,C or G

```
<400> 22
tttttttttt ttttganaaa agccggcata aagcactttt attgcaataa taaaacttga 60
gactcataaa tggtgctggg ggaagggtgc agcaacgatt tctcaccaaa tcactacaca 120
ggacagcaaa ggggtgagaa ggggctgagg gaggaaaagc caggaaactg agatcagcag 180
agggagccaa gcatcaaaaa acaggagatg ctgaagctgc gatgaccagc atcattttct 240
taanagaaca ttcaaggatt tgtcatgatg gctgggcttt cactgggtgt taagtctaca 300
aacagcacct tcaattgaaa ctgtcaatta aagttcttaa gatttaggaa gtggtggagc 360
                                                                  396
ttggaaagtt atgagattac aaaattcctg aaagtc
```

```
<210> 23
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<400> 23
acaaaggcgg ttccaagcta aggaattcca tcagtgcttt tttcgcagcc accaaattta 60
gcaggcctgt gaggttttca tatcctgaag agatgtattt taaagctttt tttttttaat 120
gaaaaaatgt cagacacaca caaaagtaga atagtaccat ggagtcccca cgtacccagc 180
ctgcagcttc aacagttacc acatttgcca accggagaga ctgccaaggc aggaaaaagc 240
cctggaaagc ccacggcccc ttttccctt gggtcagagg ccttagagct ggctgccaaa 300
gcagccaacc aaaggggcag ctcagctcct tcgtggcacc agcagtgttc ctgatgcagt 360
                                                                  396
tgaagagttg atgtctttga caacatacgg acactg .
```

```
<210> 24
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 313, 337, 340, 350, 351, 352, 353, 354, 355, 356, 366, 376,
377, 378, 382, 384, 385, 387, 389, 390, 392, 393, 396
<223> n = A,T,C or G
```

```
<400> 24
cgactatcct ctcagattct tatctggcac taatttataa ctattatatt atcagagact 60
atgtagcaat atatcagtgc acaggcgcat cccaggcctg tacagatgta tgtctacacg 120
taagtataaa tgaatttgca taccaggttt tacacttgca tctctaatag agattaaaaa 180
caacaaattg gcctcttcct aagtatatta atatcattta tccttacatt ttatgcctcc 240
ccctaaatta atgactgagt tggtggaaag cggctaggtt ttattcatac tgtttttgt 300
tctcaacttc aanagtaatc tacctctgaa aaatttntan tttaatattn nnnnnnagga 360
                                                                  396
atttgngcca ctttannnct tncnntntnn tnnccn
```

```
<210> 25
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 90, 125, 136, 278, 299, 301, 305, 344, 347, 353, 355, 356,
357, 359, 360, 361, 365, 369, 378, 380, 381, 382, 383, 384,
385, 386, 391, 392, 393, 395, 396
<223> n = A,T,C or G
```

```
<400> 25
tttttttttt tttttttttt gtcttttaaa aaatataaaa gtgttattat tttaaaacat 60
caagcattac agactgtaaa atcaattaan aactttctgt atatgaggac aaaaatacat 120
ttaanacata tacaanaaga tgctttttcc tgagtagaat gcaaactttt atattaagct 180
tctttgaatt ttcaaaatgt aaaataccaa ggctttttca catcagacaa aaatcaggaa 240
tgttcacctt cacatccaaa aagaaaaaaa aaaaaaancc aattttcaag ttgaagttna 300
ncaanaatga tgtaaaatct gaaaaaagtg gccaaaattt taanttncaa canannngnn 360
ncagntttna tggatctntn nnnnnncttc nnntnn                           396


<210> 26
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 313, 314, 316, 318, 321, 343, 344, 352, 353, 356, 363, 366,
370, 372, 373, 374, 375, 377, 378, 379, 383, 384, 385, 386,
387, 391, 393, 394, 395, 396
<223> n = A,T,C or G


<400> 26
gacgctcccc cctcccccg agcgccgctc cggctgcacc gcgctcgctc cgagtttcag 60
gctcgtgcta agctagcgcc gtcgtcgtct cccttcagtc gccatcatga ttatctaccg 120
ggacctcatc agccacgatg agatgttctc cgacatctac aagatccggg agatcgcgga 180
cgggttgtgc ctggaggtgg aggggaagat ggtcagtagg acagaaggta acattgatga 240
ctcgctcatt ggtggaaatg cctccgctga aggccccgag ggcgaaggta cccgaaagca 300
cagtaatcac tgnngncnat nttgtcatga accatcacct gcnngaaaca annttnacaa 360
aanaancctn cnnnnannnc ctnnnnnatt ncnnnn                           396


<210> 27
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 49, 61, 66, 73, 75, 99, 102, 103, 105, 107, 120, 124, 126,
129, 138, 139, 141, 147, 155, 157, 162, 165, 175, 187, 191,
193, 198, 207, 217, 218, 220, 221, 223, 226, 231, 232, 245,
257, 259, 260, 263, 266, 271, 287, 305, 306, 307, 308
<223> n = A,T,C or G


<221> misc_feature
<222> 321, 330, 332, 335, 342, 343, 344, 345, 349, 350, 351, 352,
354, 355, 356, 357, 365, 366, 367, 370, 371, 372, 373, 374,
375, 376, 377, 378, 379, 380, 381, 382, 383, 386, 387, 388,
389, 391, 392, 393, 394, 395, 396
<223> n = A,T,C or G


<400> 27
ttttttttt tttttttttt tttttttttt tttttttttt tggctaaant ttatgtatac 60
nggttnttca aangnggggg aggggggggg gcatccatnt anncncncca ggtttatggn 120
```

```
gggntnttnt actattanna nttttcnctt caaancnaag gnttntcaaa tcatnaaaat 180
tattaanatt ncngctgnta aaaaaangaa tgaaccnncn nanganagga nntttcatgg 240
ggggnatgca tcggggnann ccnaanaacc ncggggccat tcccganagg cccaaaaaat 300
gtttnnnnaa aaagggtaaa nttacccccn tnaantttat annnnaaann nnannnnagc 360
ccaannnttn nnnnnnnnnn nnnccnnnna nnnnnn                            396
```

<210> 28
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 278, 283, 298, 309, 326, 331, 338, 351, 355, 356, 357, 358,
360, 371, 377, 378, 383, 386, 387, 391, 393, 394, 395
<223> n = A,T,C or G

```
<400> 28
cgaccttttt tttttttttt atagatgaaa gagggtttat ttattaatat atgatagcct 60
tggctcaaaa aagacaaatg agggctcaaa aaggaattac agtaacttta aaaaatatat 120
taaacatatc caagatccta aatatattat tctccccaaa agctagctgc ttccaaactt 180
gatttgatat tttgcatgtt ttccctacgt tgcttggtaa atatatttgc ttctcctttc 240
tgcaatcgac gtctgacagc tgatttttgc tgttttgnca acntgacgtt tcaccttntg 300
tttcaccant tctggaggaa ttgttnaaca ncttacanca ctgccttgaa naaannnnan 360
gcctcaaaag ntcttgnnct atnctnnttc ntnnnt                            396
```

<210> 29
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 329, 334, 361, 386, 390
<223> n = A,T,C or G

```
<400> 29
gacttgctca tttagagttt gcaggaggct ccatactagg ttcagtctga aagaaatctc 60
ctaatggtgc tatagagagg gaggtaacag aaagactctt ttagggcatt tttctgactc 120
atgaaaagag cacagaaaag gatgtttggc aatttgtctt ttaagtctta accttgctaa 180
tgtgaatact gggaaagtga ttttttttctc actcgtttt gttgctccat tgtaaagggc 240
ggaggtcagt cttagtggcc ttgagagttg cttttggcat ttaaatattc taagagaatt 300
aactgtattt cctgtcacct attcactant gcangaaata tacttgctcc aaataagtca 360
ntatgagaag tcactgtcaa tgaaanttgn tttgtt                            396
```

<210> 30
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 28, 83, 126, 138, 254, 275, 298, 310, 311, 353, 363, 374,
379, 393

<223> n = A,T,C or G

<400> 30
```
tttttttttt ttttttttttg aaatttanaa acaaatttta tttaagatct gaaatacaat 60
tcctaaaata tcaacttttc canaaaaccg tggctacaca ataatgcatt gcctctatca 120
tgttanaacg tgcattanac tcaaatacaa aaaccatgaa acaaatcacc atccttcaac 180
aatttgagca aagatagaat gcctaagaac aacatagatg gacttgcaga ggatgggctg 240
ttttacttca agcnccataa aaaaaaaaaa gagcncaaat gcattgggtt ttcaggtnta 300
tacattaagn ngaacctttg gcactaggaa tcagggcgtt ttgtcacata gcnttaacac 360
atnttaaaaa attntgtant gtcaaaggga tangaa                          396
```

<210> 31
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 285, 287, 350, 362, 365, 377, 378, 382, 388, 390, 393
<223> n = A,T,C or G

<400> 31
```
gacgggccag ggccatctgg aaagggaact cggcttttcc agaacgtggt ggatcatctg 60
tcgggtgtgt ggtgaacacg ttcagttcat cagggcctac gctccgggaa ggggccccca 120
gctgtggctc tgccatgccg ggctgtgttt gcagctgtcc gagtctccat ccgcctttag 180
aaaaccagcc acttcttttc ataagcactg acagggccca gcccacagcc acaggtgcga 240
tcagtgcctc acgcaggcaa atgcactgaa acccaggggc acacncncgc agagtgaaca 300
gtgagttccc ccgacagccc acgacagcca ggactgccct ccccacccn ccccgacccc 360
angancacgg cacacanntc ancctctnan ctngct                          396
```

<210> 32
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 341
<223> n = A,T,C or G

<400> 32
```
cgactggcct cataccttgt ctacacagtc cctgcacagg gttcctaacc tgtggttagt 60
aaagaatgtc actttctaac aggtctggaa gctccgagtt tatcttggga actcaagagg 120
agaggatcac ccagttcaca ggtatttgag gatacaaacc cattgctggg ctcggcttta 180
aaagtcttat ctgaaattcc ttgtgaaaca gagtttcatc aaagccaatc caaaaggcct 240
atgtaaaaat aaccattctt gctgcacttt atgcaaataa tcaggccaaa tataagacta 300
cagtttattt acaatttgtt tttaccaaaa atgaggacta nagagaaaaa tggtgctcca 360
aagcttatca tacatttgtc attaagtcct agtctc                          396
```

<210> 33
<211> 396
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc_feature
<222> 121, 122, 124, 125, 126, 128, 130, 131, 132, 133, 134, 136,
137, 153, 154, 155, 156, 157, 158, 159, 168, 169, 170, 171,
172, 173, 174, 175, 176, 177, 178, 179, 184, 185, 192, 197,
199, 200, 202, 204, 205, 208, 209, 210, 211, 214, 215
<223> n = A,T,C or G


<221> misc_feature
<222> 216, 217, 218, 222, 227, 228, 229, 233, 234, 241, 242, 244,
245, 246, 247, 248, 249, 252, 260, 261, 262, 263, 264, 265,
270, 272, 273, 274, 275, 279, 282, 284, 288, 290, 291, 292,
293, 294, 299, 300, 301, 302, 303, 306, 313, 314, 319
<223> n = A,T,C or G


<221> misc_feature
<222> 327, 328, 330, 331, 332, 333, 334, 335, 343, 349, 350, 351,
352, 355, 360, 369, 370, 371, 375, 379, 387, 388, 390, 391,
392, 393, 394, 395, 396
<223> n = A,T,C or G


<400> 33
ccttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
nngnnntntn nnnnannaaa aaaaaaaaaa aannnnnnna aaaaaaannn nnnnnnnnnt 180
tttnnggggg gnttttnann gnanntnnn nttnnnnnaa ancccnnng ggnnggggg 240
nntnnnnnng gnaaaaaaan nnnnngggn cnnnngggnc cncncccnan nnnnaaaann 300
nnnggnttt ttnnttttna aaaaaanngn nnnnnaacaa aantttttnn nnaanttttn 360
gggggaaann ncccntttnt ttttttnnan nnnnnn 396


<210> 34
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 8, 60, 72, 123, 128, 155, 172, 198, 207, 246, 305, 325, 348,
349, 369, 371, 380, 393, 394
<223> n = A,T,C or G


<400> 34
acggaccnag ctggaggagc tgggtgtggg gtgcgttggg ctggtgggga ggcctagttn 60
gggtgcaagt angtctgatt gagcttgtgt tgtgctgaag ggacagccct gggtctaggg 120
ganagagncc ctgagtgtga gacccacctt ccccngtccc agccctccc anttcccca 180
gggacggcca cttcctgntc cccgacncaa ccatggctga agaacaaccg caggtcgaat 240
tgttcntgaa ggctggcagt gatggggcca agattgggaa ctgcccattc tcccacagac 300
tgttnatggt actgtggctc aaggnagtca ccttcaatgt taccaccnnt gacaccaaaa 360
ggcggaccna nacagtgcan aagctgtgcc canngg 396


<210> 35
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<400> 35
tcgaccaaaa tcaaatctgg cactcacaag ccctggccga cccccaatgg gttttaccac 60
tccccctcta gaccctgtct tgcaaaatcc tctccctagc cagctagtat tttctgggct 120
aaagactgta caaccagttc ctccatttta tagaagttta ctcactccag gggaaatggt 180
gagtcctcca acctcccttt caaccagtcc catcattcca accagtggta ccatagagca 240
gcaccccccg ccaccctctg agccagtagt gccagcagtg atgatggcca cccatgagcc 300
cagtgctgac ctggcaccca agaaaaagcc caggaagtca agcatgcctg tgaagattga 360
gaaggaaatt attgataccg ccgatgagtt tgatga                           396


<210> 36
<211> 396
<212> DNA
<213> Homo sapiens


<400> 36
tcgacgggaa gagcctgcta cggtggactg tgagactcag tgcactgtcc tcctcccagc 60
gaccccacgc tggaccccct gccggaccct ccacccttcg gcccccaagc ttcccagggg 120
cttcctttgg actggactgt ccctgctcat ccattctcct gccacccca gacctcctca 180
gctccaggtt gccacctcct ctcgccagag tgatgaggtc ccggcttctg ctctccgtgg 240
cccatctgcc cacaattcgg gagaccacgg aggagatgct gcttgggggt cctggacagg 300
agcccccacc ctctcctagc ctggatgact acgtgaggtc tatatctcga ctggcacagc 360
ccacctctgt gctggacaag gccacggccc agggcc                           396


<210> 37
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 376
<223> n = A,T,C or G


<400> 37
cgacggtgtc agcaactggc catgccacag cacataaaga ttacagtgac aagaaaaaca 60
ttgtttgagg attcctttca acagataatg agcttcagtc cccaagatct gcgaagacgt 120
ttgtgggtga tttttccagg agaagaaggt ttagattatg gaggtgtagc aagagaatgg 180
ttctttcttt tgtcacatga agtgttgaac ccaatgtatt gcctgtttga atatgcaggg 240
aaggataact actgcttgca gataaacccc gcttcttaca tcaatccaga tcacctgaaa 300
tattttcgtt ttattggcag atttattgcc atggctctgt ccatgggaa aattcataga 360
cacgggtttt tctttnccat tctataagcg tatctt                          396


<210> 38
<211> 396
<212> DNA
<213> Homo sapiens


<400> 38
cgaccaaaat gataaatagc tttaagaatg tgctaatgat aaatgattac atgtcaattt 60
aatgtactta atgtttaata ccttatttga ataattacct gaagaatata ttttttagta 120
ctgcatttca ttgattctaa gttgcacttt ttaccccat actgttaaca tatctgaaat 180
cagaatgtgt cttacaatca gtgatcgttt aacattgtga caaagtttaa tggacagttt 240
tttcccatat gtatatataa aataatgtgt tttacaatca gtggcttaga ttcagtgaaa 300
```

```
tacagtaatt cattcaatta tgatagtatc tttacagaca ttttaaaaat aagttatttt 360
tatatgctaa tattctatgt tcaagtggaa tttgga                            396
```

<210> 39
<211> 396
<212> DNA
<213> Homo sapiens

<400> 39
```
tcgaccaaga atagatgctg actgtactcc tcccaggcgc cccttccccc tccaatccca 60
ccaaccctca gagccacccc taaagagata ctttgatatt ttcaacgcag ccctgctttg 120
ggctgccctg gtgctgccac acttcaggct cttctccttt cacaaccttc tgtggctcac 180
agaacccttg gagccaatgg agactgtctc aagagggcac tggtggcccg acagcctggc 240
acagggcaag tgggacaggg catggccagg tggccactcc agacccctgg cttttcactg 300
ctggctgcct tagaaccttt cttacattag cagtttgctt tgtatgcact ttgttttttt 360
ctttgggtct tgtttttttt ttccacttag aaattg                            396
```

<210> 40
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 200, 375
<223> n = A,T,C or G

<400> 40
```
tttttttttt ttttgttatt tagtttttat ttcataatca taaacttaac tctgcaatcc 60
agctaggcat gggagggaac aaggaaaaca tggaacccaa agggaactgc agcgagagca 120
caaagattct aggatactgc gagcaaatgg ggtggagggg tgctctcctg agctacagaa 180
ggaatgatct ggtggttaan ataaaacaca agtcaaactt attcgagttg tccacagtca 240
gcaatggtga tcttcttgct ggtcttgcca ttcctggacc caaagcgctc catggcctcc 300
acaatattca tgccttcttt cactttgcca aacaccacat gcttgccatc caaccactca 360
gtcttggcag tgcanatgaa aaactgggaa ccattt                            396
```

<210> 41
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 288
<223> n = A,T,C or G

<400> 41
```
tcgacctctt gtgtagtcac ttctgattct gacaatcaat caatcaatgg cctagagcac 60
tgactgttaa cacaaacgtc actagcaaag tagcaacagc tttaagtcta aatacaaagc 120
tgttctgtgt gagaattttt taaaaggcta cttgtataat aaccccttgtc attttttaatg 180
tacaaaacgc tattaagtgg cttagaattt gaacatttgt ggtctttatt tactttgctt 240
cgtgtgtggg caaagcaaca tcttccctaa atatatatta cccaaagnaa aagcaagaag 300
ccagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat 360
ggtgagaggc aaggcatgag agggcaagtt tgttgt                            396
```

```
<210> 42
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 65, 68, 69, 71, 72, 75, 77, 79, 82, 85, 86, 87, 89, 90, 97,
98, 105, 107, 109, 112, 117, 121, 122, 124, 126, 149, 152,
153, 155, 157, 161, 163, 167, 168, 169, 174, 177, 178, 179,
180, 186, 188, 192, 201, 202, 207, 208, 215, 217, 220
<223> n = A,T,C or G

<221> misc_feature
<222> 225, 230, 242, 243, 247, 250, 259, 263, 271, 272, 279, 284,
295, 298, 299, 308, 309, 312, 323, 342, 348, 351, 363, 366,
370, 386, 390, 392
<223> n = A,T,C or G

<400> 42
ctttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
aaaanccnna nnaananang gnaannnann aaaaaannca aaccncntnt anaaaangcc 120
nntntnaggg gggggttca aaaccaaang gnngntngga ngnaaannna aaanttnnnn 180
gggggnanaa anaaaaaggg nngaaanntg acccnanaan gaccngaaan cccgggaaac 240
cnnggggntan aaaaaaagnt ganccctaaa nnnccccgna aaanggggga agggnaannc 300
caaatccnnt gngggttggg ggngggggaaa aaaaaaaccc cnaaaaantg naaaaaaccg 360
ggnttnaaan atttgggttc ggggggntttn tnttaa 396


<210> 43
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 108, 195, 213, 279, 287, 349
<223> n = A,T,C or G

<400> 43
tttttttttt ttttgcttca ctgctttatt tttgaaatca caagcaattc aaagtgatca 60
tcattgaggc ttctgttaaa agttcttcca aagttgccca gttttaanat taaacaatat 120
tgcactttaa gatgaactaa cttttgggat tctcttcaaa gaaggaaagt attgctccat 180
ctgtgctttt cttanactaa aagcatactg canaaaactc tattttaaaa atcaacactg 240
cagggtacag taacatagta aagtacctgc ctattttana atcctanaga acatttcatt 300
gtaagaaact agcccattat ttaagtgtcc acagtatttt tcatttcant ggtccaagat 360
gccaaggttt ccaaacacaa tcttgttctc taatac 396


<210> 44
<211> 396
<212> DNA
<213> Homo sapiens

<400> 44
```

```
gacctagttt tacctcttaa atatctctgt tcccttctaa gttgtttgct gtgttttctt 60
cagagcaaga aggttatatt ttttaaaatt tacttagtaa tgcacattca aaacacacat 120
caagtcttca ggataaagtt caaaaccgct gtcatggccc catgtgatct ctccctcccc 180
taccctcta tcatttagtt tcttctgcgc aagccactct ggcttccttt cagttttgtg 240
gttcccgttt ttagctagtt cagtggtttt caatgggcat ttcttgcctt ttttttttcta 300
aacgacaaat agaaatacat cttctttatt atcctccaaa tccaattcag aggtaatatg 360
ctccacctac acacaatttt agaaataaat taaaaa 396
```

<210> 45
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 19, 22, 39, 40, 43, 62, 84, 90, 99, 103, 104, 105, 117,
120, 123, 128, 134, 139, 141, 142, 143, 144, 145, 182, 187,
207, 218, 219, 242, 247, 257, 260, 263, 272, 276, 277, 279,
284, 288, 294, 296, 297, 305, 310, 314, 319, 320, 322
<223> n = A,T,C or G

<221> misc_feature
<222> 364, 366, 376, 378, 381, 387, 388, 396
<223> n = A,T,C or G

<400> 45
```
tttttttttt ttttaaannt tntaaatttt taatgaaann ganttagaac aatgtattat 60
tnacatgtaa ataaaaaaag agancataan ccccatatnc tcnnnaaagg aaggganacn 120
gcnggccntt tatnagaana nnnnncatat aagaccccat taagaagaat ctggatctaa 180
anacttncaa acaggagttc acagtangtg aacagcannc cctaatccca ctgatgtgat 240
gnttcanata aaatcancan cgntgatcgg gnatcnnanc aatntgancg gaanannact 300
gctcnatatn tttnaggann cngatgtggt cattttttac aaagataatg gccacaccct 360
tccngnccga atcgancnga nctcccnntt ctgtgn 396
```

<210> 46
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 24, 105, 144, 188, 190, 214, 317, 369, 371, 378
<223> n = A,T,C or G

<400> 46
```
tttttttttt ttttttttc tganacagag tctcattctg ttgcctaggc tggattgcag 60
tggtgccatc tcggctcact gcaacctccg cctcctgggt tccanaaatt ctcctgcctc 120
agcctcccgg gtagctggga ctanaggcac acgccaccac gccaggctaa tttttatatt 180
tttagtanan atggcgtttc accatgttga ccanactgat ctcgaactcc cgacctcgtg 240
atccacccac ctcggcctcc caaagtgctg ggattacagg cgtgaaacca ccaggcccgg 300
cctgaaatat ctatttnttt tcagattatt tttaaaattc catttgatga atctttaaa 360
gtgagctana naaagtgngt gtgtacatgc acacac 396
```

<210> 47

<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 290
<223> n = A,T,C or G

<400> 47
tttttttttt ttttttttgct gttgccaact gtttattcag ggccctgaac gggtggtgcg 60
tggacatgca acacactcgg gcccacagca gcgtgaccgg ccgctcccaa gccccgggcg 120
cacaaccaca gccaggagca gcccctgcca ccactgggcc accgtccagg gccccacagg 180
accagccgaa ggtgccccgg gccgaggcca gctgggtcag gtgtacccct agcctggggt 240
tgagtgagga gcggcacccc cagtatcctg tgtaccccaa gttgcccagn aggccgaggg 300
ggccttgggc tccatctgca ctggccaccc cgtgccaagc atcacagctg cgtgagcagg 360
tttgtgtgtg agcgtgtggc ggggcctggt tgtccc   396

<210> 48
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 393, 396
<223> n = A,T,C or G

<400> 48
ctgggcctgt gccgaagggt ctgggcagat cttccaaaga tgtacaaaat gtagaaattg 60
ccctcaagca aatgcaaaga tgctcaacac ccttagtcat caagaaaatg caaatggaat 120
ccacagagag atactgcaca ctgacaaaga tggtcgtatt actaaaggtg aataaccagc 180
gcggggggca cgtggagtca ctggaacatt tgtgcaatgc tggtgggaat gtcaacccgt 240
gcggccctct ggaataagcc tggcagctcc tccaagagtt acccgtgtga cccagcaatt 300
ccactcctag ctccacccac aggaattgaa agcaaagacg caaacagatg cctgtgcacc 360
aaagttcacg gcagcatcct tcgccatagt ggnaan   396

<210> 49
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 32, 40, 44, 64, 70, 83, 87, 92, 104, 115, 118, 125, 127,
130, 137, 155, 168, 171, 173, 175, 192, 201, 206, 208, 218,
219, 235, 247, 249, 256, 259, 260, 269, 297, 306, 310, 320,
321, 328, 331, 345, 356, 381, 389, 395
<223> n = A,T,C or G

<400> 49
accccaaaat gggaaaggaa aagactcata tnaacattgn cgtnattgga cacgtacatt 60
cggncaagtn caccactact ggncatntga tntataaatg cggnggcatc gacanaanaa 120
ccatngnaan atttganaag gaggctgctg atatnggaaa gggctccntc nantntgcct 180

```
gggtcttgga tnaactgaaa nctgancntg aacgtggnnt caccattgat atctncttgt 240
ggaaatntna gaccancann tactatgtna ctatcattga tgccccagga cacaganact 300
ttatcnaaan catgattacn nggacatnta nagctgactg tgctngcctg attgtngctg 360
ctggtgttgg tgaatttgaa nctggtatnt ccaana                          396
```

<210> 50
<211> 396
<212> DNA
<213> Homo sapiens

<400> 50
```
cgacttcttg ctggtgggtg gggcagtttg gtttagtgtt atactttggt ctaagtattt 60
gagttaaact gctttttttgc taatgagtgg gctggttgtt agcaggtttg tttttcctgc 120
tgttgattgt tactagtggc attaactttt agaatttggg ctggtgagat taattttttt 180
taatatccca gctagagata tggcctttaa ctgacctaaa gaggtgtgtt gtgatttaat 240
tttttcccgt tccttttct tcagtaaacc caacaatagt ctaaccttaa aaattgagtt 300
gatgtcctta taggtcacta cccctaaata aacctgaagc aggtgttttc tcttggacat 360
actaaaaaat acctaaaagg aagcttagat gggctg                          396
```

<210> 51
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 52, 59, 148, 267, 321, 332
<223> n = A,T,C or G

<400> 51
```
tttttttttt ttcagcgngg atttatttta tttcattttt tactctcaag anaaagaana 60
gttactattg caggaacaga catttttttta aaaagcgaaa ctcctgacac ccttaaaaca 120
gaaaacattg ttattcacat aataatgngg ggctctgtct ctgccgacag gggctgggtt 180
cgggcattag ctgtgccgtc gacaatagcc ccattcaccc cattcataaa tgctgctgct 240
acaggaaggg aacagcggct ctcccanaga gggatccacc ctggaacacg agtcacctcc 300
aaagagctgc gactgtttga naatctgcca anaggaaaac cactcaatgg gacctggata 360
acccaggccc gggagtcata gcaggatgtg gtactt                          396
```

<210> 52
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 81, 189
<223> n = A,T,C or G

<400> 52
```
acctcgctaa gtgttcgcta cgcggggcta ccggatcggt cggaaatggc agaggtggag 60
gagacactga agcgactgca nagccagaag ggagtgcagg gaatcatcgt cgtgaacaca 120
gaaggcattc ccatcaagag caccatggac aaccccacca ccacccagta tgccagcctc 180
atgcacagnt tcatcctgaa ggcacggagc accgtgcgtg acatcgaccc ccagaacgat 240
ctcaccttcc ttcgaattcg ctccaagaaa aatgaaatta tggttgcacc agataaagac 300
```

```
tatttcctga ttgtgattca gaatccaacc gaataagcca ctctcttggc tccctgtgtc 360
attccttaat ttaatgcccc ccaagaatgt taatgt                            396
```

<210> 53
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 224, 225, 228, 235, 240, 246, 257, 266, 274, 279, 281, 282,
283, 285, 287, 288, 290, 291, 292, 293, 294, 295, 296, 297,
300, 301, 303, 307, 311, 313, 314, 317, 318, 319, 320, 321,
323, 324, 328, 329, 330, 336, 337, 338, 339, 340, 341
<223> n = A,T,C or G

<221> misc_feature
<222> 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 356,
357, 358, 359, 362, 363, 364, 365, 366, 367, 373, 380, 381,
382, 385, 387, 388, 389, 390, 392
<223> n = A,T,C or G

<400> 53
```
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
tttttttttt tttttttttt tttttttttt tttttttttt ttannttntt ttttnttttn 240
cctttntttt aattcanaaa aagaanaaga aaanataana nnnancnnan nnnnnnnatn 300
ntncttnata ntnnttnnnn nannggg nnn gcgagnnnnn nnnnnnnnnn nntctnnnnt 360
tnnnnnnctt gcnccccttn nnttngnnnn angcaa                            396
```

<210> 54
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 367
<223> n = A,T,C or G

<400> 54
```
ctcttggggc tgctgggact cgcgtcggtt ggcgactccc ggacgtaggt agtttgttgg 60
gccgggttct gaggccttgc ttctctttac ttttccactc taggccacga tgccgcagta 120
ccagacctgg gaggagttca gccgcgctgc cgagaagctt tacctcgctg accctatgaa 180
ggcacgtgtg gttctcaaat ataggcattc tgatgggaac ttgtgtgtta aagtaacaga 240
tgatttagtt tgtttggtgt ataaaacaga ccaagctcaa gatgtaaaga agattgagaa 300
attccacagt caactaatgc gacttatggt agccaaggaa gcccgcaatg ttaccatgga 360
aactgantga atggtttgaa atgaagactt tgtcgt                            396
```

<210> 55
<211> 396
<212> DNA
<213> Homo sapiens

<400> 55
cgacggtttg ccgccagaac acaggtgtcg tgaaaactac ccctaaaagc caaaatggga 60
aaggaaaaga ctcatatcaa cattgtcgtc attggacacg tagattcggg caagtccacc 120
actactggcc atctgatcta taaatgcggt ggcatcgaca aaagaaccat tgaaaaattt 180
gagaaggagg ctgctgagat gggaaagggc tccttcaagt atgcctggt cttggataaa 240
ctgaaagctg agcgtgaacg tggtatcacc attgatatct ccttgtggaa atttgagacc 300
agcaagtact atgtgactat cattgatgcc ccaggacaca gagactttat caaaaacatg 360
attacaggga catctcaggc tgactgtgct gtcctg   396

<210> 56
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 134, 145, 255, 279, 337, 344, 369
<223> n = A,T,C or G

<400> 56
ttttttttt tttttctca tttaactttt ttaatgggtc tcaaaattct gtgacaaatt 60
tttggtcaag ttgtttccat taaaaagtac tgattttaaa aactaataac ttaaaactgc 120
cacacgcaaa aaanaaaacc aaagnggtcc acaaaacatt ctcctttcct tctgaaggtt 180
ttacgatgca ttgttatcat taaccagtct tttactacta aacttaaatg gccaattgaa 240
acaaacagtt ctganaccgt tcttccacca ctgattaana gtggggtggc aggtattagg 300
gataatattc atttagcctt ctgagctttc tgggcanact tggngacctt gccagctcca 360
gcagccttnt tgtccactgc tttgatgaca cccacc   396

<210> 57
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 52, 57, 58, 61, 72, 75, 77, 84, 87, 88, 93, 100, 101, 111,
117, 119, 121, 131, 132, 133, 134, 142, 143, 154, 156, 159,
167, 168, 170, 175, 176, 182, 183, 185, 186, 190, 192, 194,
198, 199, 200, 209, 212, 217, 218, 220, 232, 235, 253
<223> n = A,T,C or G

<221> misc_feature
<222> 255, 257, 258, 260, 262, 263, 270, 271, 273, 277, 280, 281,
284, 285, 289, 296, 297, 298, 303, 305, 307, 309, 310, 317,
322, 324, 337, 338, 342, 344, 346, 347, 349, 351, 356, 358,
366, 368, 371, 377, 380, 388, 389, 393, 396
<223> n = A,T,C or G

<400> 57
ccttttttt ttttttttt ttttttttt ttttttttt ttttttttt tnaaaanntt 60
nttttgcaa anccnancaa aaanggnngg aangaaaaan nggaaaaatt nttttncnt 120
ntttgggaac nnnnagccct tnntttgaaa aaangnggnc ttaaaanngn tgaannaaag 180
gnnannccn gntncttnnn tttaaaaana angggnngn ttttttttaa anaanatttt 240

```
ttttttccct aanancnncn anntgaaacn ngncccnacn nctnncttna aagggnnnaa 300
atnanangnn aaaaaanccc tnancccccc cccttanntt tncnannana naaagncntt 360
ttgggncntg naaaaanaan ccttttttnnt gcnttn                          396
```

<210> 58
<211> 396
<212> DNA
<213> Homo sapiens

<400> 58
```
cgacctcaaa tatgccttat tttgcacaaa agactgccaa ggacatgacc agcagctggc 60
tacagcctcg atttatattt ctgtttgtgg tgaactgatt tttttaaac caaagtttag 120
aaagaggttt ttgaaatgcc tatggtttct ttgaatggta aacttgagca tcttttcact 180
ttccagtagt cagcaaagag cagtttgaat tttcttgtcg cttcctatca aaatattcag 240
agactcgagc acagcaccca gacttcatgc gcccgtggaa tgctcaccac atgttggtcg 300
aagcggccga ccactgactt tgtgacttag gcggctgtgt tgcctatgta gagaacacgc 360
ttcaccccca ctccccgtac agtgcgcaca ggcttt                          396
```

<210> 59
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 25, 45, 116, 178, 198, 211, 225, 235, 253, 266, 281, 324,
367, 377, 389
<223> n = A,T,C or G

<400> 59
```
ctttttttttt tttttttttt tcagnggaaa ataacttttta ttganacccc accaactgca 60
aaatctgttc ctggcattaa gctccttctt cctttgcaat tcggtctttc ttcagnggtc 120
ccatgaatgc tttcttctcc tccatggtct ggaagcggcc atggccaaac ttggaggngg 180
tgtcaatgaa cttaaggnca atcttctcca nagcccgccg cttcntctgc accancaagg 240
acttgcggag ggngagcacc cgcttnttgg ttcccaccac ncagcctttc agcatgacaa 300
agtcattggt cacttcacca tagnggacaa agccacccaa agggttgatg ctccttggca 360
aataggncat agtcacngga ggcattgtnc ttgatc                          396
```

<210> 60
<211> 396
<212> DNA
<213> Homo sapiens

<400> 60
```
acctcagctc tcggcgcacg gcccagcttc cttcaaaatg tctactgttc acgaaatcct 60
gtgcaagctc agcttggagg gtgatcactc tacacccca agtgcatatg ggtctgtcaa 120
agcctatact aactttgatg ctgagcggga tgctttgaac attgaaacag ccatcaagac 180
caaaggtgtg gatgaggtca ccattgtcaa cattttgacc aaccgcagca atgcacagag 240
acaggatatt gccttcgcct accagagaag gaccaaaaag gaacttgcat cagcactgaa 300
gtcagcctta tctggccacc tggagacggt gattttgggc ctattgaaga cacctgctca 360
gtatgacgct tctgagctaa aagcttccat gaaggg                          396
```

<210> 61
<211> 396

```
<212> DNA
<213> Homo sapiens

<400> 61
tagcttgtcg gggacggtaa ccgggacccg gtgtctgctc ctgtcgcctt cgcctcctaa 60
tccctagcca ctatgcgtga gtgcatctcc atccacgttg gccaggctgg tgtccagatt 120
ggcaatgcct gctgggagct ctactgcctg gaacacggca tccagcccga tggccagatg 180
ccaagtgaca agaccattgg gggaggagat gactccttca acaccttctt cagtgagacg 240
ggcgctggca agcacgtgcc ccgggctgtg tttgtagact tggaacccac agtcattgat 300
gaagttcgca ctggcaccta ccgccagctc ttccaccctg agcagctcat cacaggcaag 360
gaagatgctg ccaataacta tgcccgaggg cactac                             396

<210> 62
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 261, 269, 313, 333, 346, 354, 359, 390, 394, 395, 396
<223> n = A,T,C or G

<400> 62
tcgacgtttc ctaaagaaaa ccactctttg atcatggctc tctctgccag aattgtgtgc 60
actctgtaac atctttgtgg tagtcctgtt ttcctaataa ctttgttact gtgctgtgaa 120
agattacaga tttgaacatg tagtgtacgt gctgttgagt tgtgaactgg tgggccgtat 180
gtaacagctg accaacgtga agatactggt acttgatagc ctcttaagga aaatttgctt 240
ccaaatttta agctggaaag ncactggant aactttaaaa aagaattaca atacatggct 300
ttttagaatt tcnttacgta tgttaagatt tgngtacaaa ttgaantgtc tgtnctganc 360
ctcaaccaat aaaatctcag tttatgaaan aaannn                             396

<210> 63
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 11, 16, 18, 23, 26, 30, 34, 37, 50, 51, 60, 61, 62, 63,
64, 75, 82, 83, 84, 85, 87, 89, 93, 94, 97, 98, 99, 118,
119, 120, 122, 134, 136, 138, 139, 141, 144, 145, 147, 152,
156, 187, 188, 193, 195, 204, 211, 214, 216, 222, 226
<223> n = A,T,C or G

<221> misc_feature
<222> 228, 235, 242, 258, 264, 265, 269, 275, 294, 298, 301, 307,
316, 326, 334, 335, 339, 340, 343, 350, 351, 355, 373, 378,
390
<223> n = A,T,C or G

<400> 63
ttnttttttt nttttntntt ttntcnttgn ttgnacngaa cccggcgctn nttccccacn 60
nnnnacggcc gcccntattc annnntncnt canntannna ccgcaccctc ggactgcnnn 120
tngggccccg ccgncnannc nccnncnccc anttcnccgc cgccgccgcc gccttttttt 180
```

```
attggcnncc atnanaaccg gggncacctc ncangngcgc cnaaantngg ggcangactc 240
anaggggcc atcaaccncc aagnncaanc tgganctcta caaacggcct acgntttntg 300
nccatgnggg tagggnttta cccgcnatga tgannatgnn aanaactttn ncaanccctt 360
tattaaccaa tgnggtgngg agacggaacn tggtta                           396
```

<210> 64
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 175, 177, 340, 393
<223> n = A,T,C or G

```
<400> 64
tcgacgtcgg ggtttcctgc ttcaacagtg cttggacgga acccggcgct cgttccccac 60
cccggccggc cgcccatagc cagccctccg tcacctcttc accgcaccct cggactgccc 120
caaggccccc gccgccgctc cagcgccgcg cagccaccgc cgccgccgcc gcctntnctt 180
agtcgccgcc atgacgaccg cgtccacctc gcaggtgcgc cagaactacc accaggactc 240
agaggccgcc atcaaccgcc agatcaacct ggagctctac gcctcctacg tttacctgtc 300
catgtcttac tactttgacc gcgatgatgt ggctttgaan aactttgcca aatactttct 360
tcccaatctc atgaggagaa ggaacatgct ganaaa                           396
```

<210> 65
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 26, 56, 103, 122, 145, 151, 154, 187, 189, 203, 224, 256,
273, 305, 344
<223> n = A,T,C or G

```
<400> 65
tttttttttt tttttttttt ttttnacca ataatgcttt tattttccac atcaanatta 60
atttatatgt tagttttagt acaagtacta aaatgtatac ttnttgccct aatagctaag 120
gnatacataa gcttcaccat acatnttgca nccncctgtc tgtcctatgt cattgttata 180
aatgtanana ttttaggaaa ctnttttatt caacctggga catntatact gtaggagtta 240
gcactgacct gatgtnttat ttaaaagtaa tgnatattac ctttacatat attccttata 300
tattnaaacg tatttccatg ttatccagct taaaatcaca tggnggttaa aagcatgagt 360
tctgagtcaa atctggactg aaatcctgat gctccc                           396
```

<210> 66
<211> 396
<212> DNA
<213> Homo sapiens

```
<400> 66
tcgacttttt tttttccagg acattgtcat aattttttat tatgtatcaa attgtcttca 60
atataagtta caacttgatt aaagttgata gacatttgta tctatttaaa gacaaaaaaa 120
ttcttttatg tacaatatct tgtctagagt ctagcaaata tagtacctttt cattgcagga 180
tttctgctta atataacaag caaaaacaaa caactgaaaa aatataaacc aaagcaaacc 240
```

```
aaaccccccg ctcaactaca aatgtcaata ttgaatgaag cattaaaaga caaacataaa 300
gtaacttcag cttttatcta gcaatgcaga atgaatacta aaattagtgg caaaaaaaca 360
aacaacaaac aacaaacaaa acaaaacaaa caaaca                            396
```

<210> 67
<211> 396
<212> DNA
<213> Homo sapiens

<400> 67
```
acgcttttgt ccttcatttt aactgttatg tcatactgtt atgttgacat atttctttat 60
aagagaatag aggcaaaagt atagaactga ggatcatttg tatttttgag ttggaaatta 120
tgaaacttca ccatatttatg atcatacata ttttgaagaa cagactgacc aaagctcacc 180
tgtttttttgt gttaggtgct ttggctgaac ttgattccag cccccttttc cctttggtgt 240
tgtgtatgtc tcttcatttc ctctcaaatc ttcaactctt gccccatgtc tccttggcag 300
caggatgctg gcatctgtgt agtcctcata ctgtttactg ataacccaca aattcatttt 360
catggcagac ctaagctcag accctgcctt gtcctg                            396
```

<210> 68
<211> 396
<212> DNA
<213> Homo sapiens

<400> 68
```
acctgagtcc tgtcctttct ctctccccgg acagcatgag cttcaccact cgctccacct 60
tctccaccaa ctaccggtcc ctgggctctg tccaggcgcc cagctacggc gcccggccgg 120
tcagcagcgc ggccagcgtc tatgcaggcg ctgggggctc tggttcccgg atctccgtgt 180
cccgctccac cagcttcagg ggcggcatgg ggtccggggg cctggccacc gggatagccg 240
ggggtctggc aggaatggga ggcatccaga acgagaagga gaccatgcaa agcctgaacg 300
accgcctggc ctcttacctg gacagagtga ggagcctgga gaccgagaac cggaggctgg 360
agagcaaaat ccgggagcac ttggagaaga agggac                            396
```

<210> 69
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 4, 6, 8, 9, 11, 18, 19, 36, 53, 60, 64, 79, 84, 92, 94, 97, 105, 114, 120, 123, 127, 129, 134, 137, 138, 139, 142, 143, 147, 149, 151, 152, 156, 158, 167, 170, 172, 180, 182, 184, 187, 188, 189, 194, 197, 201, 209, 212, 218, 219
<223> n = A,T,C or G

<221> misc_feature
<222> 220, 222, 223, 225, 228, 229, 230, 232, 233, 236, 242, 244, 247, 250, 251, 253, 256, 257, 259, 261, 270, 271, 274, 277, 278, 279, 282, 284, 288, 289, 296, 298, 300, 310, 315, 316, 320, 321, 324, 328, 330, 331, 334, 336, 340, 347, 350
<223> n = A,T,C or G

<221> misc_feature
<222> 352, 353, 355, 359, 361, 362, 364, 367, 370, 372, 374, 376,

382, 388, 390, 394, 396
<223> n = A,T,C or G

<400> 69
ntcncngnng ntgtggtnnt tttttaatt tttatntttt cttttttttt ctngctagcn 60
cttncttttt ttggaattnc ggtncctttt tntntcnatt ttttngacaa aaanaacctn 120
ttntttnana ccanagnnng gnncacncnt nnaatntncc cctttncgn tngggagctn 180
cncnttnnnc gccnacntca ntcgagacng tncttttnnn tnnancannn tnngtncgtt 240
gncngcnttn ntncannant nttccctatn nacntgnnnt cncncatnnt tggacnancn 300
cctagccttn ccatnntttn nttntttntn natnancctn gaaaacntcn gnntnttcnc 360
nncnttnccn cncncncctt cntatgtncn atgncn 396

<210> 70
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 38, 57, 59, 63, 64, 65, 66, 68, 78, 79, 84, 87, 90, 97,
114, 115, 127, 128, 141, 143, 145, 151, 159, 168, 169, 172,
173, 176, 178, 197, 198, 207, 209, 211, 215, 220, 221, 223,
225, 228, 240, 248, 249, 260, 262, 263, 273, 283, 287
<223> n = A,T,C or G

<221> misc_feature
<222> 294, 304, 314, 334, 339, 340, 348, 362, 367, 376, 382, 384,
386, 395
<223> n = A,T,C or G

<400> 70
tttttttttt ttttnttttt tttttttttt ttttttttntt tttttttttt tttttntnc 60
aannnntnaa cttttaanng gccnccngcn ccccaanggg gaccctgctt ttgnnggcta 120
aatgccnnaa aactttgggg nantnggtat naaaccccnc tttgcccnnc annttncngg 180
gggggggggg tttttgnngg ggaacangna naacnttttn ncnanggnat caccaaaaan 240
aaagcccnnc cctttttccn annggggggg ggngggggga aantcanccc ccanattgac 300
cttnatttca aaangggggct tataatcctg ggcntggann cttccctnta cccgggggtt 360
gnccacnttt tattanaggg gnangnggat ccccnt 396

<210> 71
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 21, 30, 33, 35, 36, 42, 43, 44, 45, 46, 51, 56, 58, 59,
63, 70, 77, 81, 88, 94, 95, 96, 97, 101, 102, 109, 114,
118, 119, 120, 124, 131, 132, 133, 134, 135, 141, 142, 143,
144, 145, 146, 148, 149, 154, 158, 162, 164, 166, 172
<223> n = A,T,C or G

<221> misc_feature
<222> 177, 179, 181, 184, 185, 213, 216, 218, 219, 222, 223, 224,

230, 231, 240, 241, 242, 245, 247, 251, 252, 255, 258, 259,
261, 264, 268, 269, 272, 276, 285, 288, 289, 291, 292, 293,
297, 299, 300, 307, 312, 315, 316, 317, 325, 329, 334
<223> n = A,T,C or G

<221> misc_feature
<222> 340, 341, 347, 350, 354, 355, 357, 360, 361, 367, 368, 370,
371, 376, 377, 378, 387, 393, 394
<223> n = A,T,C or G

<400> 71
gcatctagag ggccngttta ntctagaggn ccngnntaaa cnnnnncatc nacctncnnt 60
gcncctgctn gttgccnccc ntctgtgnct tgcnnnnccc nngagcgtnc cttnaccnnn 120
gaangtgcct nnnnnnactga nnnnnncnna taanatgngg anantncgtc gncattntnt 180
natnnggggt gatgctattc tgggggtgg ggnggngnna tnnnatactn ngggggacgtn 240
nnatnangag nnatntcnng nttntctnnt gntttntggg gggcnatnng nnntctntnn 300
ggactcntcg cncannnatc aatancttna ttcngtgtan ngtccgnccn tagnncngcn 360
ngtactnnan ngttgnnntc attactnttc gtnngg 396

<210> 72
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 23, 27, 34, 35, 36, 37, 39, 41, 45, 55, 56, 59, 61, 88,
92, 96, 97, 98, 101, 103, 104, 106, 108, 111, 114, 115,
121, 128, 129, 131, 159, 170, 191, 202, 227, 233, 235, 240,
262, 268, 271, 272, 280, 281, 303, 304, 305, 311, 316, 317
<223> n = A,T,C or G

<221> misc_feature
<222> 321, 324, 336, 344, 345, 353, 360, 362, 363, 364, 365, 366,
370, 373, 389, 391, 392, 394, 395
<223> n = A,T,C or G

<400> 72
tntttttttt tttctaaaac atnactnttt attnnnnang ntttntgaac ctctnngcnt 60
natggtgaga gtttgtctga ttaataanaa tnggannntt nannanangc ntgnncgcaa 120
ngatggcnnc nctgtatatc ccaccatccc attacactnt gaacctttn tttgattaat 180
aaaaggaagg natgcgggga anggggaaag agaatgcttg aacattncca tgngnccttn 240
gacaaacttt ccaatggagg cnggaacnaa nnaccaccan ncaactcccc tttttgtaat 300
ttnnnaactt ncaacnncta nctntttatt ttggcntccc tggnngaaac agnctgtatn 360
annnnnaagn ccntgagaac atccctggnt nncnna 396

<210> 73
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 7, 9, 14, 23, 35, 38, 44, 48, 50, 61, 74, 76, 79, 80,

85, 86, 91, 95, 101, 109, 112, 113, 117, 118, 121, 122,
127, 129, 132, 137, 141, 146, 214, 234, 243, 251, 266, 296,
305, 306, 336
<223> n = A,T,C or G

<400> 73
ntcaacntng actnctgtga ggnatggtgc tgggngcnta tgcngtgngn ttttggatac 60
naccttatgg acantngcnn tcccnnggaa ngatnataat ncttactgna gnnactnnaa 120
nnttccntnt cnaaaangtt naaaancatt ggatgtgcca caatgatgac agtttatttg 180
ctactcttga gtgctataat gatgaagatc ttanccacca ttatcttaac tgangcaccc 240
aanatggtga nttggggaac atatanagta cacctaagtt cacatgaagt tgtttnttcc 300
caggnnctaa agagcaagcc taactcaagc cattgncaca caggtgagac acctctattt 360
tgtacttctc acttttaagg gattagaaaa tagcca 396

<210> 74
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 22, 118
<223> n = A,T,C or G

<400> 74
ccttttttttt tttttttact gngaatatat actttttatt tagtcatttt tgtttacaat 60
tgaaactctg ggaattcaaa attaacatcc ttgcccgtga gcttcttata gacaccanaa 120
aaagtttcaa ccttgtgttc cacattgttc tgctgtgctt tgtccaaatg aacctttatg 180
agccggctgc catctagttt gacgcggatt ctcttgccca caatttcgct tgggaagacc 240
aagtcctcaa ggatggcatc gtgcacagct gtcagagtac ggctcctggg acgcttttgc 300
ttatttttttg tacggctttt tcgagttggc ttaggcagaa ttctcctctg agcgataaag 360
acgacatgct tcccactgaa ctttttctcc aattcg 396

<210> 75
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 14, 38, 41, 43, 47, 53, 73, 75, 78, 83, 96, 112, 113, 117,
124, 127, 146, 160, 167, 169, 176, 177, 178, 179, 194, 197,
198, 209, 210, 220, 222, 226, 227, 231, 238, 241, 244, 258,
259, 260, 270, 271, 274, 288, 301, 302, 305, 307, 316
<223> n = A,T,C or G

<221> misc_feature
<222> 319, 328, 339, 344, 347, 354, 359, 364, 367, 369, 370, 371,
373, 374, 381, 384, 387, 388
<223> n = A,T,C or G

<400> 75
tttttttttt tttntttttt tttttttttt ttttttnaa ntntaanggg ganggcccct 60
ttttttaaa ctngnccntt ttnctttcct tttttnaaaa ggaaaaaaaa annttnttt 120

```
ttcnttnaaa aacccttttt cccacnaaca aaaaaaaccn ttccccntnc cttttnnnna 180
aaaaaaaggg gctnggnntt tccccttann caaaaaaccn tntccnnggg naaaaaantt 240
ntcnccgggg gggaaacnnn tgggggtgtn nccnaaattt ggggggccntc ggaaggggggg 300
nnccncncct aaagangtnt ttcaaaanaa aaacccccnt cctnttntaa aaanaaaana 360
aaanaangnn ngnntttttt ntcnttnncc ccccaa                          396
```

<210> 76
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 87, 94, 102, 108, 138, 139, 143, 144, 145, 146, 151, 152,
158, 168, 170, 171, 187, 204, 206, 224, 261, 262, 267, 268,
270, 287, 305, 306, 313, 315, 319, 320, 330, 331, 333, 342,
344, 348, 349, 356, 358, 360, 362, 368, 374, 376, 381
<223> n = A,T,C or G

<221> misc_feature
<222> 390
<223> n = A,T,C or G

<400> 76
```
acattcttca gaaatacagt gatgaaaatt cattttgaaa ctcaaatatt ttcattttgg 60
atattctcct gtttttatta aaccagngat tacncctggc cntccctnta aatgttctag 120
gaaggcatgt ctgttgtnnt ttnnnnaaaa nnaaattntt ttttttttngn naaaccccaa 180
atcccanttt atcaggaagt tagncnaatg aaatggaaat tggntaatgg acaaaagcta 240
gcttgtaaaa aggaccaccc nnccacnngn ctttacccc ttggttngtt gggggaaaaa 300
ccatnnttaa ccntntggnn aaaattgggn ncntaaagtt tncntggnna acagtncntn 360
cngtattnaa ttgncnttat nggaaaatcn gggatt                          396
```

<210> 77
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 63, 66, 81, 83, 89, 107, 115, 118, 147, 151, 190, 232, 275,
288, 294, 304, 323, 332, 369, 392
<223> n = A,T,C or G

<400> 77
```
tttttttttt tttttttttt tttttttttt tatcaacatt tatatgcttt attgaaagtt 60
ganaanggca acagttaaat ncnggacnc cttacaattg tgtaaanaac atgcncanaa 120
acatatgcat ataactacta tacaggngat ntgcaaaaac ccctactggg aaatccattt 180
cattagttan aactgagcat ttttcaaagt attcaaccag ctcaattgaa anacttcagt 240
gaacaaggat ttacttcagc gtattcagca gctanatttc aaattacnca aagngagtaa 300
ctgngccaaa ttcttaaaat ttntttaggg gnggtttttg gcatgtacca gtttttatgt 360
aaatctatnt ataaaagtcc acacctcctc anacag                          396
```

<210> 78
<211> 396
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 14, 16, 20, 26, 28, 36, 38, 39, 40, 51, 52, 55, 57, 58,
67, 71, 114, 120, 132, 138, 142, 159, 165, 169, 172, 174,
175, 183, 187, 195, 197, 198, 200, 202, 206, 209, 243, 259,
260, 267, 283, 292, 305, 311, 315, 317, 319, 323, 324
<223> n = A,T,C or G

<221> misc_feature
<222> 331, 333, 334, 338, 343, 348, 353, 355, 357, 366, 376, 388
<223> n = A,T,C or G

<400> 78
agctggcnaa aggngnatgn gctgcnangc gattangnnn ggtaacgtca nnggntnncc 60
agtgcangac nttgtaaaac gacggccaca tgaattgtaa tacgactcac tatngggcgn 120
attgggccgt gnaggatngt gntcacactc gaatgtatnc tggcngatnc ananngcttt 180
atngctnttg acggngnntn anccanctng ggctttaggg ggtatcccct cgcccctgct 240
tcnttgattt gcacgggcnn ctccganttc cttcataata ccngacgctt cnatccccta 300
gctcngacct ntcantntnt tcnntgggtt ntnnccgntc acngcttncc cgnangntat 360
aatctnggct cctttnggga tccattantc tttact 396

<210> 79
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 116, 153, 189, 194, 210, 218, 241, 270, 272, 288, 291, 304,
324, 325, 329, 333, 334, 338, 340, 342, 366, 372, 377, 384,
396
<223> n = A,T,C or G

<400> 79
caccaaccaa aacctggcgc cgttggcatc gtagagtgaa cacaacccaa aaacgatacg 60
ccatctgttc tgccctggct gcctcagccc taccagcact ggtcatgtct aaaggncatc 120
gtattgagga agttcctgaa cttcctttgg tangttgaag ataaagctga aggctacaag 180
aagaccaang aagntgtttt gctccttaan aaacttanac gcctggaatg atatcaaaaa 240
ngctatgcct ctcagcgaat gagactggan angcaaaatg agaaaccntc nccgcatcca 300
gcgnaggggc cgtgcatctc tatnntgang atnntggnan cnttcaaggc cttcagaacc 360
tccctngaaa tnctctnctt taangaacca aactgn 396

<210> 80
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 312, 319, 353, 383
<223> n = A,T,C or G

<400> 80
tgtacatagg catcttattc actgcaccct gtcacaccca gcaccccccg ccccgcacat 60
tatttgaaag actgggaatt taatggttag ggacagtaaa tctacttctt tttccaggga 120
cgactgtccc ctctaaagtt aaagtcaata caagaaaact gtctattttt agcctaaagt 180
aaaggctgtg aagaaaattc attttacatt gggtagacag taaaaaacaa gtaaataac 240
ttgacatgag cacctttaga tccttccctt catggggctt tgggcccaga atgacctttg 300
aggcctgtaa anggattgna atttcctata agctgtatag tggagggatt ggngggtcat 360
ttgagtaagc cctccaagat acnttcaata cctggg                         396


<210> 81
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 240, 286, 361, 364, 374, 375, 379, 380, 381, 387
<223> n = A,T,C or G


<400> 81
gcagctgaag ttcagcaggt gctgaatcga ttctcctcgg cccctctcat tccacttcca 60
acccctccca ttattccagt actacctcag caatttgtgc ccctacaaa tgttagagac 120
tgtatacgcc ttcgaggtct tccctatgca gccacaattg aggacatcct gcatttcctg 180
ggggagttcg ccacagatat tcgtactcat ggggttcaca tggtttttgaa tcaccagggn 240
ccgccatcag gagatgcctt tatccagatg aagtctgcgg acagancatt tatggctgca 300
cagaagtggc ataaaaaaaa catgaaggac agatatgttg aagtttttcag tgtcagctga 360
nganagaaca ttgnngtann nggggggnact ttaaat                         396


<210> 82
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 220, 251, 297, 301, 309, 349, 395
<223> n = A,T,C or G


<400> 82
gactcagaaa tgtcagtctc atgaagttca aaagatcgag aatgtttgct atcttggtgg 60
agcagccgca gccaagcaag taacttgtaa aatgaggaat gccatcaccc ctcgagtgtc 120
catcccacat aacttggggt tagagcacaa gcgttcccag gaactactca ccttaccatc 180
ttggccgttt catttgcttc caccagttct ggaaagagan ggcctagaag ttcaaaaaaa 240
aagtaggaaa ngtgcttttg gagaaaatca cctgctcctc agaactgggc ttacaanctg 300
ngaagtacnc tatgtgccac ctaatcctca tatatgacct caagagacnc caataagcat 360
atttccacca cggaatgacc agtgctttgg gtaana                         396


<210> 83
<211> 396
<212> DNA
<213> Homo sapiens


<220>

```
<221> misc_feature
<222> 13, 372, 379, 393
<223> n = A,T,C or G

<400> 83
tttgatttaa ganatttatt attttttaa aaaaagcaac ttccagggtt gtcattgtac 60
aggttttgcc cagtctccta tagcatggta tagtgataac tgattttta taacaatgac 120
tcagaggcat tgaagatcca taactatctt ctgaattatc acagaaagaa gaaagttaga 180
agagtttaat gttaagtgta ttaaaaatca tattctaatt cttttaattt ggttatctga 240
gtatgataat ataggagagc tcagataaca aggaaaaggc attggggtaa gaacactcct 300
tcccacagga tggcattaac agactttttc tgcatatgct ttatatagtt gccaactaat 360
tcacctttta cncagcttna ttttttttta ctnggg                          396


<210> 84
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 61, 232, 254, 270, 271, 286, 354, 356, 368, 374, 389, 394
<223> n = A,T,C or G


<400> 84
tttttacagc aatttttttt tattgatgtt taacctgtat acaaccatac ccattttaag 60
ngtacagaca aatgaatttt gacaaattca ttcactcatc taatcatcac tataaccatg 120
atacagattt ttatcactcc aaaagtccat cctgtgctct tttcaagtcc atcctcctca 180
tctgataccc caagccacca ttgttttgct ttctggaact acagttttgg gnttttagaa 240
tttcatatat ggtngaatca taccatttgn natttggggc tgacgncttt cctccaataa 300
tggatttgag aattatctac attttgcatg gatcctgggt tatttatacc aacnangggt 360
tattatgnaa aatnggacca caatttggng gcanta                          396


<210> 85
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 293, 305, 306, 317, 347, 357, 372, 377, 386, 391
<223> n = A,T,C or G


<400> 85
cagtgaccgt gctcctaccc agctctgctc cacagcgccc acctgtctcc gcccctcggc 60
ccctcgcccg gctttgccta accgccacga tgatgttctc gggcttcaac gcagactacg 120
aggcgtcatc ctcccgctgc agcagcgcgt ccccggccgg ggatagcctc tcttactacc 180
actcacccgc agactccttc tccagcatgg gctcgcctgc aacgcgcagg acttctgcac 240
ggacctggcc gctccagtgc caacttcatt ccacggcact gcatctcgac canccggact 300
tgcannggtt ggggaanccg cccttgtttc tccgtggccc atctaanacc aaacccntca 360
ccttttcgga gnccccnccc ctccgntggg nttact                          396


<210> 86
<211> 396
<212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 6, 28, 50, 58, 90, 108, 110, 118, 145, 154, 194, 244, 285, 292, 300, 312, 315, 342, 344, 346, 359, 374, 378, 380, 396
<223> n = A,T,C or G

<400> 86
```
ttttnnactg aatgtttaat acatttgnag gaacagaaga aatgcagtan ggattaanat 60
tttataatta gacattaatg taacagatgn ttcatttttc aaagaagntn ccccttntc 120
cctatctttt tttaatcttc cttanagcaa taantagtaa ttactatatt tgtggacaag 180
ctgctccact gtgntggaca gtaattatta aatctttatg tttcacatca ttattacctt 240
ccanaattct accttcattt ccctgcacag gttcactgga ctggntcaca ancaaattgn 300
actccactca antanaagag cccaaagaaa ttagagtaac gncnantcct atgaattana 360
gacccaaaga tttnaggngn tgattagaaa cataan                          396
```

<210> 87
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 231, 277, 285, 296, 341, 351, 372, 377, 380
<223> n = A,T,C or G

<400> 87
```
atggaggcgc tggggaagct gaagcagttc gatgcctacc ccaagacttt ggaggacttc 60
cgggtcaaga cctgcggggg cgccaccgtg accattgtca gtggccttct catgctgcta 120
ctgttcctgt ccgagctgca gtattacctc accacggagg tgcatcctga gctctacgtg 180
gacaagtcgc ggggagataa actgaagatc aacatcgatg tactttttcc ncacatgcct 240
tgtgcctatc tgagtattga tgccatggat gtggccngag aacancagct ggatgnggaa 300
cacaacctgt ttaagccacc actagataaa gatgcatccc ngtgagctca nagctgagcg 360
gcatgagctt gngaaantcn aggtgaccgg gtttga                          396
```

<210> 88
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 246, 266, 301, 328, 347, 349, 368, 370, 371, 374, 379, 387, 391
<223> n = A,T,C or G

<400> 88
```
tccagagcag agtcagccag catgaccgag cgccgcgtcc ccttctcgct cctgcggggc 60
cccagctggg acccccttccg cgactggtac ccgcatagcc gctcttcgac caggccttcg 120
ggctgccccg gctgccggag gagtggtcgc agtggttagg cggcagcagc tggccaggct 180
acgtgcgccc cctgcccccc gccgcatcga gagccccgca gtggccgcgc ccgctacagc 240
cgcgcngctc agccggcaac tcacancggg gctcggagat ccgggacact gcggaccgct 300
```

```
ngcgcgtgcc ctggatgtca ccactttngc ccggacaact gacggtnana caaggatggg 360
gggtgganan nccngtaanc caagaanggg naggac                               396


<210> 89
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 37, 76, 230, 295, 306, 333, 346, 370, 376, 377, 395
<223> n = A,T,C or G

<400> 89
gagagaacag taaacatcca gccttagcat ctctcangag tactgcagat cttcattagc 60
tatattcaca tggagnaatg ctattcaacc tatttctctt atcaaaacta attttgtatt 120
ctttgaccaa tgttcctaaa ttcactctgc ttctctatct caatcttttt cccctttctc 180
atctttcctc cttttttcag tttctaactt tcactggttc tttggaatgn tttttctttc 240
atctcttttc ttttacattt tggggtgtcc cctctctttt cttaccctct ttctncatcc 300
ttcttnttct tttgaattgg ctgcccttta tcntctcatc tgctgncatc ttcatttctc 360
ctccctcctn tttccnntca ttctactctc tcccnt                               396


<210> 90
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 82, 110, 115, 120, 121, 125, 126, 129, 131, 140, 141, 144,
145, 146, 148, 149, 150, 153, 154, 157, 158, 160, 161, 163,
164, 166, 170, 172, 173, 174, 175, 179, 182, 184, 189, 193,
194, 195, 200, 206, 213, 215, 217, 218, 219, 220, 227
<223> n = A,T,C or G

<221> misc_feature
<222> 228, 231, 233, 236, 241, 247, 248, 249, 250, 254, 259, 262,
269, 273, 274, 275, 280, 281, 282, 286, 287, 289, 293, 294,
301, 302, 304, 309, 311, 318, 319, 324, 325, 330, 331, 333,
334, 336, 337, 341, 342, 343, 344, 349, 352, 353, 358
<223> n = A,T,C or G

<221> misc_feature
<222> 361, 365, 367, 373, 377, 381, 385, 386, 387, 392
<223> n = A,T,C or G

<400> 90
gggcgccggc gcgccccccc acccccgccc cacgtctcgt cgcgcgcgcg tccgctgggg 60
gcggggagcg gtcgggccgg cngcggtcgg ccggcggcag ggtggtgcgn tttcnttttn 120
nattnnccnc nttcttcttn nttnnncnnn ctnntanncn ntnncnttcn cnnnntttnc 180
tntntcttna ccnnnttttn taatcntctt ctncntnnnn tctcttnnat ntnttnctta 240
nttcctnnnn tttnttctnt cntttctcnc ctnnntctcn nnctcnncnc tcnncatttt 300
nntntttttnt nccttctnnt cttnnttctn ntnntnnttt nnnnttctnt tnntcatntt 360
                                                                     396
ncctntntta ctntcanctt ntatnnncct cntttt
```

```
<210> 91
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 3, 8, 9, 16, 17, 18, 21, 22, 32, 33, 45, 50, 63, 64, 68,
75, 82, 92, 95, 98, 102, 106, 108, 110, 111, 116, 121, 135,
151, 154, 158, 162, 167, 170, 176, 181, 185, 187, 209, 212,
215, 225, 231, 245, 257, 278, 283, 288, 290, 292, 293
<223> n = A,T,C or G

<221> misc_feature
<222> 312, 324, 326, 330, 331, 333, 334, 344, 345, 349, 351, 352,
357, 358, 382, 384, 390, 392
<223> n = A,T,C or G

<400> 91
ntntcctnna tttttnnntc nncttttttt tnnaattttt ctttnttttn tttataaaaa 60
tcnncacnta aaacngcgga anagggatt tnttnttngg gngtancncn nggccncaaa 120
naaccccaaa aatancccaa aatgcacagg nccngggnaa angaccnacn tgggtntttt 180
ntttntnaac aaggggggtt ttaaagggna tnggnatcaa agggnataaa ntttaaacct 240
ttganaaatt ttttaanagg cttgcccccc actttggncc ccnccccncn gnngggatcc 300
aattttttttt cnttggggct cccngncccn nannttccgg gttnntggnc nntcctnntt 360
                                                                    396
ttttttttttt tgccttcacc cntnccattn cntttt

<210> 92
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 7, 8, 9, 11, 31, 149, 152, 221, 233, 259, 263, 264, 265,
266, 274, 278, 279, 283, 286, 294, 302, 307, 309, 310, 311,
314, 316, 320, 343, 351, 363, 372, 377, 386, 393
<223> n = A,T,C or G

<400> 92
ctntttnnnt nttttttttcc ccatcatcca naaatgggtt ttattctcag ccgagggaca 60
gcaggactgg taaaaactgt caggccacac ggttgcctgc acagcacccc catgcttggt 120
aggggtgggg agggatggcg ggggctggnt gnccacaggc cgggcatgac aaggaggctc 180
actggaggtg gcacactttg gagtgggatg tcggggaca ncttctttgg tanttgggcc 240
acaagattcc caaggatanc acnnnnactg attnccannc tanagncaag cggntggcca 300
tntgtangnn nttntntatn tgactattta tagatttttta tanaacaggg naagggcata 360
                                                                    396
ccncaaaagg gnccaanttt ttaccnccgg gcnccc

<210> 93
<211> 396
<212> DNA
<213> Homo sapiens
```

<220>
<221> misc_feature
<222> 290, 304, 313, 320, 325, 333, 337, 348, 351
<223> n = A,T,C or G

<400> 93
gctgccacag atctgttcct ttgtccgttt ttgggatcca caggccctat gtatttgaag 60
ggaaatgtgt atggctcaga tcctttttga aacatatcat acaggttgca gtcctgaccc 120
aagaacagtt ttaatggacc actatgagcc cagttacata aagaaaaagg agtgctaccc 180
atgttctcat ccttcagaag aatcctgcga acggagcttc agtaatatat cgtggcttca 240
catgtgagga agctacttaa cactagttac tctcacaatg aaggacctgn aatgaaaaat 300
ctgnttctaa ccnagtcctn tttanatttt agngcanatc cagaccancg ncggtgctcg 360
agtaattctt tcatgggacc tttggaaaac tttcag   396

<210> 94
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 115, 204, 205, 243, 266, 276, 316, 319, 355, 357, 364
<223> n = A,T,C or G

<400> 94
tgccttaacc agtctctcaa gtgatgagac agtgaagtaa aattgagtgc actaaacgaa 60
taagattctg aggaagtctt atcttctgca gtgagtatgg cccaatgctt tctgnggcta 120
aacagatgta atgggaagaa ataaaagcct acgtgttggt aaatccaaca gcaagggaga 180
tttttgaatc ataataactc atanngtgct atctgtcagt gatgccctca gagctcttgc 240
tgntagctgg cagctgacgc ttctangata gttagnttgg aaatggtctt cataataact 300
acacaaggaa agtcanccnc cgggcttatg aggaattgga cttaataaat ttagngngct 360
tccnacctaa aatatatctt ttggaagtaa aattta   396

<210> 95
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 16, 31, 36, 42, 49, 53, 56, 57, 60, 67, 70, 84, 89, 91,
92, 99, 105, 106, 112, 120, 121, 125, 127, 128, 133, 137,
141, 151, 152, 153, 154, 155, 162, 166, 167, 168, 174, 177,
179, 186, 188, 194, 195, 199, 203, 205, 213, 217, 221
<223> n = A,T,C or G

<221> misc_feature
<222> 227, 232, 235, 236, 240, 242, 260, 261, 265, 266, 291, 297,
318, 325, 330, 339, 348, 351, 352, 354, 356, 362, 364, 372,
380, 392, 395, 396
<223> n = A,T,C or G

<400> 95
cctcccaccc ncttanttca tgagattcga naatgncact tntgtgctnt ttnctnnttn 60

```
tattctnacn atttctttct tggngcggna nnaatcccnt ttttnngggc gnctctcccn 120
ncttntnntt tcntggngct ntccctttc nnnnnaaact tntacnnngt ttanaantnt 180
ttctgnangg gggnntccna aananttttt ccncctncct nattccnctc tnaannctcn 240
cnaattgttt cccccccccn ntagnntatt ttttctaaaa aattaactcc nacgganaaa 300
attttcccta aaatttcncc tccanatttn gaaaaaacnc gcccgganct nntntncgaa 360
tntnaatttt tnaaaaaaan ttattttcat cnggnn                           396
```

<210> 96
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 161, 193, 253, 259, 281, 288, 299, 309, 318, 319, 335, 340,
344, 352, 355, 356, 387, 396
<223> n = A,T,C or G

<400> 96
```
cctgggtacc aaatttcttt atttgaagga atggtacaaa tcaaagaact taagtggatg 60
ttttggacaa cttatagaaa aggtaaagga aaccccaaca tgcatgcact gccttggcga 120
ccagggaagt caccccacgg ctatggggaa attagcccga ngcttaactt tcattatcac 180
tgcttccaag gggntgcttg gcaaaaaaat attccgccaa ccaaatcggg cgctccatct 240
tgcccagttg gtnccgggnc cccaattctt ggatgctttc ncctcttntt ccggaatgng 300
ctcatgaant cccccaanng gggcattttg ccagnggccn tttngccatt cnagnnggcc 360
tgatccattt tttccaatgt aatgccnctt cattgn                           396
```

<210> 97
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 13, 15, 16, 19, 23, 31, 38, 39, 41, 45, 68, 94, 95, 100,
119, 131, 133, 141, 144, 164, 171, 182, 186, 190, 191, 195,
196, 198, 213, 229, 231, 235, 239, 247, 257, 265, 269, 272,
278, 279, 286, 289, 291, 306, 309, 310, 312, 317, 320
<223> n = A,T,C or G

<221> misc_feature
<222> 321, 327, 328, 337, 340, 343, 351, 360, 361, 368, 375, 381,
385, 386, 387, 388
<223> n = A,T,C or G

<400> 97
```
ctcaccctcc tcntnnttnt canaatattg ngaacttnnt nctgntcgaa tcactggcat 60
taaagganca ctagctaatg gcactaaatt tacnnactan ggaaactttt ttataatant 120
gcaaaaacat ntnaaaaaga ntgnagttcg cccatttctg cttnggaaga nctcttcact 180
tntaancccn natgnngncc tttgggtcaa aanctccgcg attattacng ngttncccnc 240
tatttgncct tcctttntcc ccaangccnc anatttcnna actttnccnt naaatgcctt 300
tatttnatnn cntttcnacn ncttaanntt ccctttnaan aangatccct ncttcaaatn 360
ntttcccngt tcctngcatt ncccnnnnat ttctct                           396
```

```
<210> 98
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 130, 202, 285, 296, 299, 308, 314, 321, 322, 336, 373
<223> n = A,T,C or G

<400> 98
acagggacaa tgaagccttt gaagtgccag tctatgaaga ggccgtggtg ggactagaat 60
cccagtgccg cccccaagag ttggaccaac caccccctac agcactgttg tgatacccc 120
agcacctgan gaggaacaac ctaccatcca gaggggccag gaaaagccaa actggaacag 180
aggcgaatgg ctcagagggg tncatggcca agaaggaagc cctggaagaa cttcaatcac 240
cttcggtttc gggaccaccg gcttgtgtcc ctgttctgac tgcanaactt ggcgcngtnc 300
cccattanaa cctntgactc nncccttgct ataagnctgt tttggcccct gatgatgata 360
gggtttttat gangacactt gggcacccc ttaatg 396

<210> 99
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 4, 13, 15, 26, 31, 43, 46, 48, 52, 54, 55, 60, 62, 68,
72, 93, 112, 118, 119, 122, 131, 132, 133, 134, 145, 147,
152, 157, 163, 164, 186, 190, 225, 231, 239, 246, 247, 250,
255, 262, 285, 314, 316, 319, 325, 332, 339, 343, 345
<223> n = A,T,C or G

<221> misc_feature
<222> 348, 351, 352, 355, 357, 361, 370, 387
<223> n = A,T,C or G

<400> 99
nttntttttc cgncnaaagg gcaagngttt ncatctttcc tgnccncnca ananngggtn 60
tntgtgcntt tnttttttcc caaaacccgg gtngggggaca ccttttgagg anccactnnt 120
cntccggggc nnnntttttag aaggngncta anaagcntct tgnnggggga aaaacatctt 180
tttgcncccn acataccccc aaggggggg ggtgtctggg agganactaa ngacttttnt 240
ttttnnccn caaanaactg anggcccca ttgctccccc cccantcttt aaaaaacccc 300
ttcaatttcc ttgncnggna aaaanggttg gnaaaaaang agngngcntc nnttncnttt 360
natggaaggn aaaaggtttt tggttgnaaa accccg 396

<210> 100
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 229, 286, 303, 312, 334, 335, 348, 350, 357, 364, 371, 395
<223> n = A,T,C or G
```

<400> 100
ctaacacggt gaaaccctgt ctctactaaa aatacaaaaa aattagccag gcgtggtggc 60
gggcacctgt agtcccagct gctcaggaag ctgaggcagg agaatggcgt gaacccagaa 120
ggcggagctt gcagtgagct gagatcgtgt cagtgcactc cagcctgggc gacagagcga 180
gactcccgct caaaaaaaaa aaaaaaaaga gaaaagaaaa agctgcagng agctgggaat 240
gggccctatc ccctccttgg ggatcaatga gacccctttt caaaanaaaa aaaaaaataa 300
tgngattttg gnaacatatg gcactggtgc ttcnnggaat tctgtttntn ggcatgnccc 360
                                                                396
cctntgactg nggaaaaatc cagcaggagg cccana

<210> 101
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 93, 99, 100, 111, 168, 172, 174, 199, 209, 216, 218, 219,
227, 242, 243, 269, 272, 297, 300, 301, 308, 315, 317, 323,
331, 341, 344, 348, 357, 359, 363, 364, 366, 376, 379, 386,
389, 392
<223> n = A,T,C or G

<400> 101
agttataact caacagttca tttatatgct gttcatttaa cagttcattt aaacagttca 60
ttataactgt ttaaaaatat atatgcttat agncaaaann tgttgtggcg nagttgttgc 120
cgcttatagc tgagcattat ttcttaaatt cttgaatgtt cttttggngg gntnctaaaa 180
ccgtatatga tccattttna tgggaaacng aattcntnnc attatcncac cttggaaata 240
cnnaacgtgg gggaaaaaaa tcattcccnc cntccaaaac tatacttctt ttatctngan 300
nttcttgntc ctgcncnggt ttngaatata nctgggcaaa nggntttncc aaatccntnt 360
                                                                396
acnntncttt gggaantanc ggcaantcnt cncttt

<210> 102
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 17, 93, 136, 183, 317
<223> n = A,T,C or G

<400> 102
actatacata agaacangct cacatgggag gctggaggtg ggtacccagc tgctgtggaa 60
cgggtatgga caggtcataa acctagagtc agngtcctgt tggcctagcc catttcagca 120
ccctgccact tggagnggac ccctctactc ttcttagcgc ctaccctcat acctatctcc 180
ctnctcccat ctcctacgga ctggcgccaa atggctttcc tgccaatttt gggatcttct 240
ctggctctcc agcctgctta ctcctctatt tttaaagggc caaacaaatc ccttctcttt 300
ctcaaacaca gtaatgnggc actgaccta ccacacctca tgaaggggggc ttgttgcttt 360
                                                                396
tatttgggcc cgatctgggg ggggcaaaat attttg

<210> 103
<211> 396
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 91, 174, 176, 188, 201, 214, 254, 277, 299, 325, 349, 355, 365, 372, 390
<223> n = A,T,C or G

<400> 103
ttgtgttggg actgctgata ggaagatgtc ttcaggaaat gctaaaattg ggcaccctgc 60
cccaacttca aagccacagc tggtatgcca natggtcagg ttaaagatat caacctgctg 120
actacaaagg aaaatatggt ggggtcttct tttaccctct tgacttccct ttgngngccc 180
cccgaganca ttgctttccg ngatagggca aaanaaatta aaaaacttaa ctggccagtg 240
aatggggctt ctgnggatct ccttctggca ttacatnggc aatccctaaa aaacaagang 300
actgggaccc ataacattct tttgnatcaa ccgaagcccc cattgttang atatngggct 360
taaangctga tnaagcatct cgtccgggcn ttttat 396

<210> 104
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 32, 53, 86, 141, 154, 156, 181, 182, 197, 204, 219, 224, 226, 229, 232, 245, 253, 260, 262, 271, 273, 276, 292, 301, 303, 305, 321, 325, 332, 343, 352, 382, 392
<223> n = A,T,C or G

<400> 104
aagggagggc gcgccaagac cttcccactc gngcacactg ggggcgccga cangacgcaa 60
cccagtccaa cttggatacc cttggnttta gttctcggac acttctttta tctctccgtc 120
gcaacttgtc aagttctcaa nactgtctct ctgngntatc tttttcttc gctgctcttc 180
nnccccgac gtatttntca aaangtctgc aattgttgna tacntnganc tncaccactg 240
ttacnaggtc atnaatttcn cntcaactct ntnccncttg ttccctgata tntcggccgg 300
ngncnccaat tctgtatttt nctcntcaac gntctcactt ttncctcctc cnggccactt 360
tctccccttc cttattccgg cnttgtttgc cnccat 396

<210> 105
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 57, 306, 356, 388, 391
<223> n = A,T,C or G

<400> 105
tcaatagcca gccagtgttc atttttatcc ttgagctttt agtaaaaact tcctggnttt 60
attttagtc attgggtcat acagcactaa agtctgctat ttatggaaac taactttttt 120
gttttaatc caggccaaca tgtatgtaaa ttaaattttt agataattga ttatctcttt 180
gtactacttg agatttgatt atgagatgtg catattgctt tgggaagagc tcgaggaagg 240
aaataattct ctcctttggt ttgaacctca actagataaa ccctaggaat tgttaactgc 300

```
acaagnattt tcattccaca aaacctgagg cagctctttt gccagagcgt tcctgnaccc 360
ccccacccca cttgccttgg gtctttanaa ngagcc                            396
```

<210> 106
<211> 396
<212> DNA
<213> Homo sapiens

<400> 106
```
gctgtgtagc acactgagtg acgcaatcaa tgtttactcg aacagaatgc atttcttcac 60
tccgaagcca aatgacaaat aaagtccaaa ggcattttct cctgtgctga ccaaccaaat 120
aatatgtata gacacacaca catatgcaca cacacacaca cacacccaca gagagagagc 180
tgcaagagca tggaattcat gtgtttaaag ataatccttt ccatgtgaag tttaaaatta 240
ctatatattt gctgatggct agattgagag aataaaagac agtaacccttt ctcttcaaag 300
ataaaatgaa aagcaattgc tcttttcttc ctaaaaaatg caaaagattt acattgctgc 360
caaatcattt caactgaaaa gaacagtatt gctttg                            396
```

<210> 107
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 12, 210, 257, 261, 271, 302, 311, 314, 318, 368, 374, 385, 389, 396
<223> n = A,T,C or G

<400> 107
```
ttcacagaac anggtggttt attatttcaa tagcaaagag ctgaaaaatg tcgggtccca 60
taaaggagca gaacctgacc cagagcctgc agtacatttc caccccacag gggtgcaggc 120
tgggccaggc agggccaaag gcagcagaaa tgggagtaag agactgtgcc cactgagaag 180
ctctgctggg tgtgggcagg tgggcatgan atgatgatga tgtagtgtaa ggaccaggta 240
ggcaaaacct gtcaggnttg ntgaatgtca nagtggatcc aaaaggctga gggggtcgtc 300
anaaggccgg nggncccncc cttgcccgta tgggccttca aaaagtatgc ttgctcatcc 360
gttgtttncc ccanggagct gccanggana aggctn                            396
```

<210> 108
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 280, 281, 286, 305, 311, 313, 323, 326, 327, 340, 352, 356, 363, 369, 378, 388, 392
<223> n = A,T,C or G

<400> 108
```
gcctgctttt gatgatgtct acagaaaatg ctggctgagc tgaacacatt tgcccaattc 60
caggtgtgca cagaaaaccg agaatattca aaattccaaa ttttttttctt aggagcaaga 120
agaaaatgtg gccctaaagg gggttagttg aggggtaggg ggtagtgagg atcttgarttt 180
ggatctcttt ttatttaaat gtgaatttca acttttgaca atcaaagaaa agactttttgt 240
tgaaatagct ttactgcttc tcacgtgttt tggagaaaan natcanccct gcaatcactt 300
```

```
tttgnaactg ncnttgattt tcngcnncca agctatatcn aatatcgtct gngtanaaaa 360
tgncctggnc ttttgaanga atacatgngt gntgct                            396
```

<210> 109
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 237, 279, 284, 291, 305, 307, 308, 313, 326, 343, 351, 366,
376, 392, 394, 395
<223> n = A,T,C or G

<400> 109
```
ggccgtaggc agccatggcg cccagcccgg aatggcatgg tcttgaagcc ccacttccac 60
aaggactggc agcggcgcgt ggccacgtgg ttcaaccagc cggcccggaa gatccgcaga 120
cgtaaggccc ggcaagccaa ggcgcgccgc atcgctccgc gccccgcgtc gggtcccatc 180
cggcccatcg tgcgctgccc acggttcggt accacacgaa gggcgcgccg gcgcggnttc 240
agcctggagg agctcagggt ggccggattt acaagaagng gccngacatc ngtattcttg 300
ggatncnnga agnggaacaa gtcacngagt ccttgcagcc acntcagcgg ntgatgacac 360
cgttcnaact catctnttcc caagaaacct cngnnc                            396
```

<210> 110
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 2, 12, 13, 16, 18, 29, 39, 60, 66, 70, 86, 90, 104, 121,
122, 127, 128, 146, 165, 171, 172, 173, 176, 188, 189, 193,
195, 205, 210, 211, 224, 226, 227, 231, 233, 240, 243, 244,
248, 249, 255, 257, 258, 260, 266, 268, 272, 273, 275
<223> n = A,T,C or G

<221> misc_feature
<222> 278, 280, 287, 292, 294, 303, 308, 312, 315, 320, 322, 332,
333, 334, 335, 345, 347, 351, 363, 364, 369, 371, 372, 379,
381, 382, 386, 391, 393
<223> n = A,T,C or G

<400> 110
```
nntgggctcc tnncantnat aataaaccng actcatacnc cacaaggaga tgaacaggan 60
tatgtncatn ctgacgcgga aacagngcan ggagctgagg aggngccaag atgagaccta 120
nnggccnngg tgggcgcatt cccggnggag ggggccacta aggantacga nnntcnagcg 180
gctcttgnng gcngncctcc tcacncctgn ntattcgatt gtcncnnatg ncntcctatn 240
atnntcanna ttctntnntn atctcntnta cnncntcncn ttcatgntta cngntccctc 300
tcnttctnac cnttntctgn anctcctttc tnnnnctttc atctntnttc ngctttcttt 360
ctnnaatcnt nntttaacnt nntctncttt ntnatt                            396
```

<210> 111
<211> 396
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 4, 7, 11, 16, 19, 25, 26, 30, 33, 39, 54, 60, 69, 75, 81,
99, 102, 130, 132, 143, 154, 156, 166, 180, 182, 188, 190,
192, 194, 198, 201, 226, 242, 253, 261, 264, 295, 305, 313,
315, 320, 323, 325, 330, 334, 337, 340, 344, 348, 349
<223> n = A,T,C or G

<221> misc_feature
<222> 351, 352, 357, 358, 359, 361, 362, 381, 387, 388, 389, 394
<223> n = A,T,C or G

<400> 111
taangancat nctggnttnt gcctnnccgn ctnattgant gttaaaggca attntgtggn 60
tgtcccagng aatgncggct nattttcttt ccacattgng cncattcact cctcccactc 120
ttggcatgtn gngacataag canggtacat aatngnaaaa atctgnattt ctgatgccan 180
angggtanan cntnttgnat ntcattccat tgatatacag ccactntttt atttttgatc 240
ancggccttc ggntcactgc ncanggtact tgacctcagt gtcactatta tgggntttgg 300
tttcnctctt ttncnggccn ttntntttcn cacnttncan cttncttnnt nnaaaannna 360
nncactctct cttgctctct ngatacnnng tctnaa 396

<210> 112
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 172, 186, 378, 380, 382, 388
<223> n = A,T,C or G

<400> 112
tcaacgtcac caattactgc catttagccc acgagctgcg tctcagctgc atggagagga 60
aaaaggtcca gattcgaagc atggatccct ccgccttggc aagcgaccga tttaacctca 120
tactggcaga taccaacagt gaccggctct tcacagtgaa cgatgttaaa gntggaggct 180
ccaagnatgg tatcatcaac ctgcaaagtc tgaagacccc tacgctcaag gtgttcatgc 240
acgaaaacct ctacttcacc aaccggaagg tgaattcggg gggctgggcc tcgctgaatc 300
acttggattc cacattctgc tatgcctcat gggactcgca gaacttcagg ctggccaccc 360
tgctcccacc atcactgntn gncaatantc acccag 396

<210> 113
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 2, 3, 4, 7, 8, 9, 10, 11, 65, 273, 279, 280, 289, 321,
338, 380
<223> n = A,T,C or G

<400> 113

```
nnnnttnnnn nggagcctta atttcagagt tttattgtat tgcactaaag gaacagcagg 60
atggntatac aattttctct cattcagttt tgaaaatctg tagtacctgc aaattcttaa 120
gaataccttt accaccagat tagaacagta agcataataa ccaatttctt aataagtaat 180
gtcttacaaa taaaaacaca tttaaaatag ctttaaatgc attcttcaca agtaattcag 240
catatatttt atatcatggt tacttatgct tangaattnn agcaggatnt ttattctttt 300
gatggaaata tgggaaaact ntattcatgc atatacangg ataatattca gcgaagggaa 360
                                                                  396
aatcccgttt ttattttggn aatgattcat atataa
```

<210> 114
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 40, 82, 114, 116, 146, 164, 166, 174, 185, 212, 215, 219,
224, 236, 242, 254, 258, 263, 270, 286, 299, 308, 327, 328,
329, 345, 363, 378, 382, 385
<223> n = A,T,C or G

<400> 114
```
aaatgggaca acgtgattct tttgtttttaa ataaatactn agaacacgga cttggctcct 60
acaagcattt ggactctaag gnttagaact ggagagtctt acccatgggc cccncncagg 120
gacgccacgg ttccctccca ccccgngatc aagacacgga atcngntggc gatngttgga 180
tcgcnatgtg ccccttatct atagccttcc cnggncatnt acangcagga tgcggntggg 240
anaactacaa ctgnaatntc tcnaacggtn atggtcccca ccgatnaaga ttctacctng 300
tcttttcntc ccctggagtg tgagtgnnng aggaagaagc ccttncctta catcaccttt 360
                                                                  396
tgnacttctg aacaaganca anacnatggc cccccc
```

<210> 115
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 277, 297, 321, 341, 381, 391
<223> n = A,T,C or G

<400> 115
```
ccgcctggtt cggcccgcct gcctccactc ctgcctctac catgtccatc agggtgaccc 60
agaagtccta caaggtgtcc acctctggcc cccgggcctt cagcagccgc tcctacacga 120
gtgggcccgg ttcccgcatc agctcctcga gcttctcccg agtgggcagc agcaactttc 180
gcggtggcct ggcggcggct atggtggggc cagcggcatg ggaggcatca cccgcagtta 240
cggcaaccag agcctgctga gccccttgcc tggaggngga ccccaacatc aagccgngcg 300
cacccaggaa aaggagcaga ncaagaccct caacaacaag nttgcttctt catagacaag 360
                                                                  396
ggaccggtcc ttgaacagca naacaagatg ntggag
```

<210> 116
<211> 396
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 267, 290, 343, 351, 376
<223> n = A,T,C or G

<400> 116
atctcagttt actagctaag tgactttggg caagggattt aacctctcgt ccctcagttt 60
cctcctatgt aaaatgacaa ggataatagt accaacccaa tgtagattaa atgagtttac 120
gaagtgttag aatagtgctt ggcacattag tgctttacaa ctgctatttt gattgttgtt 180
gtgggctctc tcaaatgcat tgtctctaga tgccagtgac ccaggtcaaa atttaccttt 240
aaccaagctg catgtttccc agactgntgc acagtcctct accctgagan aaagcttcca 300
cccaaggata cttttacttt ctgctggaaa actgatgagc aanggcaaca ngggacactt 360
atcgccaact ggaaangaga aattcttcct tttgct   396

<210> 117
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 228, 267, 318, 331, 357, 368, 376
<223> n = A,T,C or G

<400> 117
aaacattttt taataaaatt cctatagaaa gctcagtcat agggcaaata ctcagttctc 60
tttcccatat caccgaggat tgagagctcc caatattctt tggagaataa gcagtagttt 120
tgctggatgt tgccaggact cagagagatc acccatttac acattcaaac cagtagttcc 180
tattgcacat attaacatta cttgcccta gcaccctaaa tatatggnac ctcaacaaat 240
aacttaaaga tttccgtggg gcgcganacc atttcaattt gaactaatat ccttgaaaaa 300
aatcacatta ttacaagntt taataaatac nggaagaaga gctggcattt ttctaanatc 360
tgaattcnga cttggnttta ttccataaat acggtt   396

<210> 118
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 4, 5, 12, 14, 15, 16, 24, 59, 80, 87, 225, 280, 286, 287,
295, 297, 298, 337, 349, 362, 375, 387, 394
<223> n = A,T,C or G

<400> 118
accnncacct gntnnntttt aacnattaca acttctttat atggcagttt ttactgggng 60
cctaacactc tctttactgn ctcaagngga agtccaaaca aatttcattt ttgtagtaaa 120
aaatctttat ttccaaaatg atttgttagc caaaagaact ataaaccacc taacaagact 180
ttggaagaaa gagacttgat gcttcttata aattccccat tgcanacaaa aaataacaat 240
ccaacaagag catggtaccc attcttacca ttaacctggn tttaannctc caaancnnga 300
tttaaaaatg accccactgg gcccaatcca acatganacc taggggggnt tgccttgatt 360
angaatcccc cttanggact ttatctnggc tganaa   396

<210> 119
<211> 396

```
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 251, 281, 298, 301, 308, 326, 332, 337, 351, 358, 362, 388,
394
<223> n = A,T,C or G

<400> 119
atggccagct cactttaaat accacctcaa gactcatcga aatgaccgct ccttcatctg 60
tcctgcagaa ggttgtggga aaagcttcta tgtgctgcag aggctgaagg tgcacatgag 120
gacccacaat ggagagaagc cctttatgtg ccatgagtct ggctgtggta agcagtttac 180
tacagctgga aacctgaaga accaccggcg catccacaca ggagagaaac ctttcctttg 240
tgaagcccaa ngatgtggcc gtcctttgct gagtattcta ncttcgaaaa catctggngg 300
ntactcanga gagaaagcct cattantgcc antctgnggg aaaaccttct ntcagagngg 360
angcaggaat gtgcatatta aaaagctncc ttgnac                          396
```

```
<210> 120
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 261, 263, 265, 272, 273, 288, 308, 310, 330, 379
<223> n = A,T,C or G

<400> 120
catgggtcag tcggtcctga gagttcgaag agggcacatt cccaaagaca ttcccagtca 60
tgaaatgtag aagactggaa aattaagaca ttatgtaaag gtagatatgg cttttagagt 120
tacattatgc ttggcatgaa taaggtgcca ggaaaacagt ttaaaattat acatcagcat 180
acagactgct gttagaaggt atgggatcat attaagataa tctgcagctc tactacgcat 240
ttattgttaa ttgagttaca nangncattc annactgagt ttatagancc atattgctct 300
atctctgngn agaacatttg attccattgn gaagaatgca gtttaaaata tctgaatgcc 360
atctagatgt attgtaccna aaggggaaaa ataaca                          396
```

```
<210> 121
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 77, 125, 130, 142, 155, 162, 166, 176, 204, 227, 242, 243,
245, 246, 249, 251, 252, 265, 279, 306, 310, 314, 336, 341,
354, 367, 382, 385, 390, 395
<223> n = A,T,C or G

<400> 121
tttttttttt ttttttttaa aatcaagtta tgtttaataa acattaataa atgtttactt 60
aaaagggtta ataaacnttt actacatggc aaattatttt agctagaatg cttttggctt 120
caagncatan aaaccagatt cnaatgccct taaanaattt tnaaanatcc attganggg 180
ataactgtaa tccccaaggg gaanagggtt gggtatgaca ggtacanggg gccagcccag 240
```

```
tnntnncana nncagactct taccntcttt ctgctgtgnc accctcaggc attggctcca 300
ttctcngggn tgcncatggg aagatggctt tggacntaac nacacccttt tgtncacgta 360
aaggccngat gcagggtcaa anagnttccn ccatnt                         396
```

<210> 122
<211> 396
<212> DNA
<213> Homo sapiens

<400> 122
```
gtcgacatgg ctgccctctg ggctcccaga acccacaaca tgaaagaaat ggtgctaccc 60
agctcaagcc tgggcctttg aatccggaca caaaaccctc tagcttggaa atgaatatgc 120
tgcactttac aaccactgca ctacctgact caggaatcgg ctctggaagg tgaagctaga 180
ggaaccagac ctcatcagcc caacatcaaa gacaccatcg gaacagcagc gcccgcagca 240
cccaccccgc accggcgact ccatcttcat ggccacccccc tgcggtggac ggttgaccac 300
cagccaccac atcatcccag agctgagctc ctccagcggg atgacgccgt ccccaccacc 360
tccctcttct tcttttttcat ccttctgtct ctttgt                        396
```

<210> 123
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 74, 94, 142, 149, 194, 219, 233, 279, 316, 335, 368
<223> n = A,T,C or G

<400> 123
```
gccctttttt tttttttttt tttcctagtg ccaggtttat tccctcacat gggtggttca 60
catacacagc acanaggcac gggcaccatg gganagggca gcactcctgc cttctgaggg 120
gatcttggcc tcacggtgta anaagggana ggatggtttc tcttctgccc tcactagggc 180
ctagggaacc cagnagcaaa tcccaccacg ccttccatnt ctcagccaag ganaagccac 240
cttggtgacg tttagttcca accattatag taagtggana agggattggc ctggtcccaa 300
ccattacagg gtgaanatat aaacagtaaa ggaanataca gtttggatga ggccacagga 360
aggagcanat gacaccatca aaagcatatg caggga                         396
```

<210> 124
<211> 396
<212> DNA
<213> Homo sapiens

<400> 124
```
gaccattgcc ccagacctgg aagatataac attcagttcc caccatctga ttaaaacaac 60
ttcctccctt acagagcata caacagaggg ggcacccggg gaggagagca catactgtgt 120
tccaatttca cgcttttaat tctcatttgt tctcacacca acagtgtgaa gtgcgtggta 180
taatctccat ttcaaaacca aggaagcagc ctcagagtgg tcgagtgaca cacctcacgc 240
aggctgagtc cagagcttgt gctcctcttg attcctggtt tgactcagtt ccaggcctga 300
tcttgcctgt ctggctcagg gtcaaagaca gaatggtgga gtgtagcctc cacctgatat 360
tcaggctact cattcagtcc caaatatgta ttttcc                         396
```

<210> 125
<211> 396
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 43, 88, 91, 94, 139, 141, 150, 163, 193, 202, 212, 215, 222, 238, 253, 256, 286, 297, 331, 343, 350, 360, 376, 385, 396
<223> n = A,T,C or G

<400> 125
```
cccttttttt tttttttttt ttttttttt tttttactt tgnaacaaaa atttattagg  60
attaagtcaa attaaaaaac ttcatgcncc nccncttgtc atatttacct gaaatgacaa 120
agttatactt agcttgagng naaaacttgn gccccaaaaa ttntgtttgg aaagcaaaaa 180
aataattgat gcncatagca gngggcctga tnccnccaca gngaatgttg tttaaggnct 240
aacaaacagg ggncancaaa gcatacatta cttttaagct ttgggnccaa ggaaaangtc 300
attccctacc tccttcaaaa gcaaactcat natagcctgg gcncctaggn ctggagcctn 360
tttttcgag tctaanatga acatntggat ttcaan                          396
```

<210> 126
<211> 396
<212> DNA
<213> Homo sapiens

<400> 126
```
cgcgtcgact cgcaagtgga atgtgacgtc cctggagacc ctgaaggctt tgcttgaagt  60
caacaaaggg cacgaaatga gtcctcaggt ggccaccctg atcgaccgct ttgtgaaggg 120
aaggggccag ctagacaaag acaccctaga caccctgacc gccttctacc ctgggtacct 180
gtgctccctc agccccgagg agctgagctc cgtgcccccc agcagcatct gggcggtcag 240
gccccacgac ctggacacgc tggggctacg gctacagggc ggcatcccca acggctacct 300
ggtcctagac ctcagcatgc aagaggccct ctcggggacg ccctgcctcc taggacctgg 360
acctgttctc accgtcctgg cactgctcct agcctc                         396
```

<210> 127
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15
<223> n = A,T,C or G

<400> 127
```
ttttttttttt ttggnggtaa aatgcaaatg ttttaaaata tgtttatttt gtatgtttta  60
caatgaatac ttcagcaaag aaaataatta taatttcaaa atgcaatccc tggatttgat 120
aaatatcctt tataatcgat tacactaatc aatatctaga aatatacata gacaaagtta 180
gctaatgaat aaaataagta aaatgactac ataaactcaa tttcagggat gagggatcat 240
gcatgatcag ttaagtcact ctgccacttt ttaaaataat acgattcaca tttgcttcaa 300
tcacataaac attcattgca ggagttacac ggctaatcat tgaaaattat gatctttgtt 360
agcttaaaag aaaattcagt ttaatacaaa gacatt                          396
```

<210> 128
<211> 396
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc_feature
<222> 220, 244, 351, 384
<223> n = A,T,C or G

<400> 128
gccctttttt ttttttttta aaggcaaata aaataagttt attgggatgt aaccccatca 60
taaattgagg agcatccata caggcaagct ataaaatctg gaaaatttaa atcaaattaa 120
attctgcttt taaaaaggtg ccttaagtta accaagcatt ttgataacac attcaaattt 180
aatatataaa aatagatgta tcctggaaga tataatgaan aacatgccat gtgtataaat 240
tcanaatacg cttttacac aaagaactac aaaaagttac aaagacagcc ttcaggaacc 300
acacttagga aaagtgagcc gagcagcctt cacgcaaagc ctccttcaaa naagtctcac 360
aaagactcca gaaccagccg agtntgtgaa aaagga                          396


<210> 129
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 104, 164, 177, 204, 217, 234, 273, 312, 350, 353, 370
<223> n = A,T,C or G

<400> 129
gccctttttt ttttttttt ttttactcag acaggcaata tttgctcaca tttattctct 60
tgcatcgtaa atagtagcca actcacaaaa ataaagtata caanaatgta atattttta 120
aaataagatt aacagtgtaa gaaggaaaat ctcaaaaaaa gcanatagac aatgtanaaa 180
attgaaatga aatcccacag taanaaaaaa aaaacanaaa agtgcctatt taanaattat 240
gctacatgtg gaacttaact agaccatttt aanaaagacc aatttctaat gcaaattttc 300
tgaggttttc anattttatt tttaaaatat gttatagcta catgttgtcn acncggccgc 360
tcgagtctan agggcccgtt taaacccgct gatcag                          396


<210> 130
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 23, 24, 26, 32, 56, 191, 286, 355
<223> n = A,T,C or G

<400> 130
cgcccttttt ttttttttt tanngnacgt gnctttattt ctggatgata taaaanaaaa 60
aacttaaaaa acaccccaaa ccaaacacca atggatcccc aaagcgatgt gactccctct 120
tcccacccgg ataaatagag acttctgtat gtcagtctac cctcccgccc ccataacccc 180
ctctgctata nacatactct gggtatatat tactctactc ggcaatagac atctcccgaa 240
aatagaattc ctgccctgac acctgactct tccctggccg catcanacca cccgccactg 300
tagcacactg gtgtccttgc cccctgtggt cagggccatg ctgtcatccc acaanaaggc 360
cacatttgtc acatggctgc tgtgtccacc gtactt                          396


<210> 131
```

<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 49, 68, 69, 83, 88, 93, 136, 140, 154, 158, 166, 167, 168,
170, 172, 173, 187, 226, 239, 241, 247, 257, 259, 271, 293,
301, 318, 334, 336, 342, 344, 357, 377, 384
<223> n = A,T,C or G

<400> 131
gccctttttt tttttttttt tttttttttt ttcagtttac acaaaaacnc tttaattgac 60
agtatacnnt tttccaaaat atnttttngt aanaaaatgc aataattatt aactatagtt 120
tttacaaaca agtttntcan taaattccag tgtncttnaa accccnnncn annaaaacat 180
atatganccc ccagttcctg ggcaaactgt tgaacattca ctgcanacaa aaagaccanc 240
nccaaanagt catctgngnc ctccatgctg ngtttgcacc aaacctgagg gancagctag 300
ngaccgtgac aaaagctntg ctacagtttt actntngccc tntntgcctc ccccatnatg 360
tttccttggt ccctcantcc tgtnggagta agttcc 396

<210> 132
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 69
<223> n = A,T,C or G

<400> 132
cgcgtcgacc gcggccgtag cagccgggct ggtcctgctg cgagccggcg gcccggagtg 60
gggcggcgnt atgtaccttc cacattgagt attcagaaag aagtgatctg aactctgacc 120
attctttatg gatacattaa gtcaaatata agagtctgac tacttgacac actggctcgg 180
tgagttctgc ttttctttt taatataaat ttattatgtt ggtaaattta gcttttggct 240
tttcactttg ctctcatgat ataagaaaat gtaggttttc tctttcagtt tgaatttttcc 300
tattcagtaa aacaacatgc tagaaaacaa acttttggaa aggcattgta actattttt 360
caaatagaac cataataaca agtcttgtct taccct 396

<210> 133
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 17, 18, 20, 21, 25, 26, 30, 31, 40, 44, 45, 46, 51, 52,
66, 67, 68, 74, 89, 109, 122, 166, 193, 214, 218, 266, 269,
291, 307, 315, 348, 375, 378, 379, 386, 393
<223> n = A,T,C or G

<400> 133
ntattacccc tcctggnnan ntggnnatan nctgcaaggn gatnnncccg nngaacttca 60
ctgatnnncc aatnaaaact gctttaaanc tgactgcaca tatgaattnt aatacttact 120

```
tngcgggagg ggtggggcag ggacagcaag ggggaggatt gggaanacaa tagacaggca 180
tgctgggggat gcngcgggct ctatggcttc tgangcgnaa agaaccagct ggggctctag 240
ggggtatccc cacgcgccct gtagcngcnc attaaacgcg gcgggtgtgg nggttacttc 300
gcaaagngac cgatncactt gccagcgccc tagctgcccg ctcctttngc tttcttccct 360
tcctttctcg ccacnttnnc cggctntccc cgncaa                           396
```

<210> 134
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 133, 144, 221, 229, 302, 358
<223> n = A,T,C or G

<400> 134
```
tttttttttt ttctgctttt tatatgttta aaaatctctc attctattgc tgctttattt 60
aaagaaagat tactttcttc cctacaagat ctttattaat tgtaaaggga aaatgaataa 120
ctttacaatg ganacacctg gcanacacca tcttaaccaa agcttgaagt taacataacc 180
agtaatagaa ctgatcaata tcttgtgcct cctgatatgg ngtactaana aaaacacaac 240
atcatgccat gatagtcttg ccaaaagtgc ataacctaaa tctaatcata aggaaacatt 300
anacaaactc aaattgaagg acattctaca aagtgccctg tattaaggaa ttattcanag 360
taaaggagac ttaaaagaca tggcaacaat gcagta                           396
```

<210> 135
<211> 396
<212> DNA
<213> Homo sapiens

<400> 135
```
gcgtcgacgc tggcagagcc acaccccaag tgcctgtgcc cagagggctt cagtcagctg 60
ctcactcctc cagggcactt ttaggaaagg gtttttagct agtgtttttc ctcgctttta 120
atgacctcag ccccgcctgc agtggctaga agccagcagg tgcccatgtg ctactgacaa 180
gtgcctcagc ttccccccgg cccgggtcag gccgtgggag ccgctattat ctgcgttctc 240
tgccaaagac tcgtgggggc catcacacct gccctgtgca gcggagccgg accaggctct 300
tgtgtcctca ctcaggtttg cttcccctgt gcccactgct gtatgatctg ggggccacca 360
ccctgtgccg gtggcctctg ggctgcctcc cgtggt                           396
```

<210> 136
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 185, 188, 191, 193, 396
<223> n = A,T,C or G

<400> 136
```
ttatgcttcc ggctcgtntg ttgtgtggaa ttgtgagcgg ataacaattt cacacaggaa 60
acagctatga ccatgattac gccaagctat ttaggtgaca ctatagaata ctcaagctat 120
gcatcaagct tggtaccgag ctcggatcca ctagtaacgg ccgccagtgt gctggaattc 180
gcggncgntc nantctagag ggcccgttta aacccgctga tcagcctcga ctgtgccttc 240
```

52

tagttgccag ccatctgttg tttgcccctc ccccgtgcct tccttgaccc tggaaggtgc 300
cactcccact gtcctttcct aataaaatga ggaaattgca tcgcattgtc tgagtaggtg 360
tcattctatt ctggggggtg gggtggggca ggacan   396

<210> 137
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 156, 216
<223> n = A,T,C or G

<400> 137
tttttttttt ttctgctttg tacttgagtt tatttcacaa aaccacggag aaagatactg 60
aaatggagct ctttccagcc tccaagcaag gaggccccag cagccagtct ccagcccctt 120
gagccctttt tgttaggccc acacccaaaa gagganaacc agtgtgtgcg cgaaggtaca 180
tggcaaggca cttttgaaaa catcccagtt taccgnggtg aaattgaact tactctgaaa 240
cagatgaaaa gggacatgca aaattgctga gcacatggag gtgtttgtta gtaggtgaaa 300
atcatgtcct gggtataacc cagcttctcc aggttaggggt gagccgccgt ctggatcagt 360
ggtggcgggc cacacaccag gatgagcgtg gacttc   396

<210> 138
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 69, 136, 265, 272
<223> n = A,T,C or G

<400> 138
cccttttttt ttttttttac aaatgagaaa aatgtttatt aagaaaacaa tttagcagct 60
ctcctttana attttacaga ctaaagcaca acccgaaggc aattacagtt tcaatcatta 120
acacactact taaggngctt gcttactcta caactggaaa gttgctgaag tttgtgacat 180
gccactgtaa atgtaagtat tattaaaaat tacaaattgt ttggtgatta ttttgatgac 240
ctcttgagca gcagctcccc ccaanaatgc ancaatggta tgtggctcac cagctccata 300
tcggcaaaat tcgtggacat aatcatcttt caccattaca gataaaccat attcctgaag 360
gaagccagtg agacaagact tcaactttcc tatatc   396

<210> 139
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 51, 105, 126, 147, 210, 212, 236, 241, 258, 263, 348
<223> n = A,T,C or G

<400> 139
ccgccctttt tttttttttt ttcacaaaag cactttttat ttgaggcaaa nagaagtctt 60

```
gctgaaagga ttccagttcc aagcagtcaa aactcaaccg ttagnggcac tattttgacc 120
tggtanattt tgcttctctt tggtcanaaa agggtattca ggttgtactt tccccagcag 180
ggtaaaaaga agggcaaagc aaactggaan anacttctac tctactgaca gggctnttga 240
natccaacat caagctanac acnccctcgc tggccactct acaggttgct gtcccactgc 300
tgagtgacac aggccatact acatttgcaa ggaaaaaaat gaggcaanaa acacaggtat 360
                                                                  396
aggtcacttg gggacgagca ggcaaccaca gcttca
```

```
<210> 140
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 50, 60, 63, 100, 133, 135, 172, 183, 190, 196, 220, 240,
262, 266, 273, 278, 293, 327, 332, 341, 348, 355, 380, 391
<223> n = A,T,C or G
```

```
<400> 140
tttttttttt tttttttttt ttttttctc atttaacttt tttaatgggn ctcaaaattn 60
tgngacaaat.ttttggtcaa gttgtttcca ttaaaaagtn ctgattttaa aaactaataa 120
cttaaaactg ccncncccaa aaaaaaaaac caaaggggtc cacaaaacat tntcctttcc 180
ttntgaaggn tttacnatgc attgttatca ttaaccagtn ttttactact aaacttaaan 240
ggccaattga aacaaacagt tntganaccg ttnttccncc actgattaaa agnggggggg 300
caggtattag ggataatatt catttancct tntgagcttt ntgggcanac ttggngacct 360
                                                                  396
tgccagctcc agcagccttn ttgtccactg ntttga
```

```
<210> 141
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<400> 141
acgccgagcc acatcgctca gacaccatgg ggaaggtgaa ggtcggagtc aacggatttg 60
gtcgtattgg gcgcctggtc accagggctg cttttaactc tggtaaagtg gatattgttg 120
ccatcaatga ccccttcatt gacctcaact acatggttta catgttccaa tatgattcca 180
cccatggcaa attccatggc accgtcaagg ctgagaacgg gaagcttgtc atcaatggaa 240
atcccatcac catcttccag gagcgagatc cctccaaaat caagtggggc gatgctggcg 300
ctgagtacgt cgtggagtcc actggcgtct tcaccaccat ggagaaggct ggggctcatt 360
                                                                  396
tgcaggggg agccaaaagg gtcatcatct ctgccc
```

```
<210> 142
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<400> 142
acgcaggaga ggaagcccag cctgttctac cagagaactt gcccaggtca gaggtctgcg 60
tagaagccct tttctgagca tcctctcctc tcctcacacc tgccactgtc ctctgcgttg 120
ctgtcgaatt aaatcttgca tcaccatggt gcacttctgt ggcctactca ccctccaccg 180
ggagccagtg ccgctgaaga gtatctctgt gagcgtgaac atttacgagt ttgtggctgg 240
tgtgtctgca actttgaact acgagaatga ggagaaagtt cctttggagg ccttctttgt 300
gttccccatg gatgaagact ctgctgttta cagctttgag gccttggtgg atgggaagaa 360
                                                                  396
aattgtagca gaattacaag acaagatgaa ggcccg
```

<210> 143
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19, 48, 69, 122, 183, 227, 332, 390
<223> n = A,T,C or G

<400> 143
```
tttttttttt tttccatana aaataggatt tattttcaca tttaaggnga acacaaatcc 60
atgttccana aatgttttat gcataacaca tcatgagtag attgaatttc tttaacacac 120
anaaaaatca aagcctacca ggaaatgctt ccctccggag cacaggagct tacaggccac 180
ttntgttagc aacacaggaa ttcacattgt ctaggcacag ctcaagngag gtttgttccc 240
aggttcaact gctcctaccc ccatgggccc tcctcaaaaa cgacagcagc aaaccaacag 300
gcttcacagt aaccaggagg aaagatctca gnggggggaac cttcacaaaa gccctgagtt 360
gtgtttcaaa agccaagctc tggggtctgn ggcctg                          396
```

<210> 144
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 221, 331
<223> n = A,T,C or G

<400> 144
```
tttttttttt tttcgctctt tggtctgaca agaaaagagt tttaggtgtg tgaagtaggg 60
tgggaaaaaa ggtcagtttc aaattcagta acatatggta acactaagtt aggctgctgc 120
attcttttct ttgggtactt aagccagctg gcacttccac tttgtaacca attatatatt 180
gatcaacaac taatcagtta gttcctcagc ttcaactgaa nagttcctga ttacctgatg 240
aaggacatac ttgctctggc ttcaattagc atgctgtcaa gcatccctct ccatgcttaa 300
catggcaaca caaaacccaa gagtccttct ntttttttca ttagccatga ataaacactc 360
acaaagggga agagtagaca ctgcttttag taaacg                          396
```

<210> 145
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 45, 56, 61, 63, 120, 122, 147, 151, 158, 259, 262, 274, 339,
345, 353
<223> n = A,T,C or G

<400> 145
```
tttttttttt tttttttcaa tggatccgtt agctttacta ctaanatctt gctganatca 60
nanaagggct tctgggcagg ctgagcactg ggggtgtgca acatggtaac tctgaataan 120
anaaaccctg agtttactg ggcaaanaaa naacaagngg taggtatgat ttctgaacct 180
```

```
ggaaatagcg aaaatgaagg aaattccaaa agcgcgtatt tccaaataat gacaggccag 240
caagaggaca ccaaacctnt anaaagaggt attntttctt ccagctactg atggctttgg 300
catcccacag gcacattcct ttggccttca ggatcttana tgcanatgtg ganagtcaag 360
aggtaggctg actctgagtc ttcagctaaa ttcttt                           396
```

<210> 146
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 120, 130, 176, 180, 185, 208, 238, 254, 259, 261, 275, 285,
296, 347
<223> n = A,T,C or G

<400> 146
```
tttttttttt ttttcattag caaggaagga tttatttttt cttttgaggg gagggcggaa 60
cagccgggat ttttggaaca ctacctttgt ctttcacttt gttgtttgtg tgttaacacn 120
aataaatcan aagcgacttt aaatctccct tcgcaggact gtcttcacgt atcagngcan 180
acaanaaaac agtggcttta caaaaaanat gttcaagtag ctgcacttt gcctctgngg 240
gtgaggcaca ctgngggana nacaaggtcc cctgnaacca gaggngggaa ggacanagct 300
ggctgactcc ctgctctccc gcattctctc ctccatgtgt tttgaanagg gaagcaacat 360
gttgaggtct gatcatttct acccagggaa cctgtt                           396
```

<210> 147
<211> 396
<212> DNA
<213> Homo sapiens

<400> 147
```
acggggaagc caagtgaccg tagtctcatc agacatgagg gaatgggtgg ctccagagaa 60
agcagacatc attgtcagtg agcttctggg ctcatttgct gacaatgaat tgtcgcctga 120
gtgcctggat ggagcccagc acttcctaaa agatgatggt gtgagcatcc ccggggagta 180
cacttccttt ctggctccca tctcttcctc caagctgtac aatgaggtcc gagcctgtag 240
ggagaaggac cgtgaccctg aggcccagtt tgagatgcct tatgtggtac ggctgcacaa 300
cttccaccag ctctctgcac cccagccctg tttcaccttc agccatccca acagagatcc 360
tatgattgac aacaaccgct attgcacctt ggaatt                           396
```

<210> 148
<211> 396
<212> DNA
<213> Homo sapiens

<400> 148
```
acgtcccatg attgttccag accatgactc ttcctggttg tgggtttgtt acagagcagg 60
agaagcagag gttatgacag ttatgcagac tttcccctc cttttctct tttctcttcc 120
ccttgctttt ccactgtttc ttcctgctgc cacctgggcc ttgaattcct gggctgtgaa 180
gacatgtagc agctgcaggg tttaccacac gtgggagggc agcccagtac tgtccctctg 240
ccttccccac tttgagaata tggcagcccc tttcattcct ggcttggggt aggggagacc 300
attgaagtag aagcctcaaa gcagactttt ccctttactg tgtgtactcc aggacgaaga 360
aggaagatca tgcttgatac ttagattggt tttccc                           396
```

<210> 149

56

<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 214, 295
<223> n = A,T,C or G

<400> 149
tttttttttt tttaaagagt cacattttat tcaatgccta tttgtacatg ttactagcaa 60
taaactcttt tatctttaat tttgagaagt tttacaaata cagcaaagca gaatgactaa 120
tagagccggt aaccaggaca cagatttgga aaaataggtc taattggttg ttacactgtg 180
tttatgtcat acatttcgct tattttttatc aaanaaaaat cagaatttat aaaatgttaa 240
ttaaaaggaa aacattctga gtaaatttag tcccgtgttt cttcctccaa atctntttgt 300
tctacactaa caggtcagga taagtatgga tggggaggct ggaaaaaggg catccttccc 360
catgcggtcc ccagagccac cctctccaag caggac 396

<210> 150
<211> 396
<212> DNA
<213> Homo sapiens

<400> 150
acgcctctct tcagttggca cccaaacatc tggattggca aatcagtggc aagaagttcc 60
agcatctgga ctttttcagaa ttgatcttaa gtctactgtc atttccagat gcattatttt 120
acaactgtat ccttggaaat atatttctag ggagaatatt attgaagaaa atgttaatag 180
cctgagtcaa atttcagcag acttaccagc atttgtatca gtggtagcaa atgaagccaa 240
actgtatctt gaaaaacctg ttgttccttt aaatatgatg ttgccacaag ctgcattgga 300
gactcattgc agtaatattt ccaatgtgcc acctacaaga gagatacttc aagtctttct 360
tactgatgta cacatgaagg aagtaattca gcagtt 396

<210> 151
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 146, 299, 332
<223> n = A,T,C or G

<400> 151
acaaaatgcc cagcctacag agtctgagaa ggaaatttat aatcaggtga atgtagtatt 60
aaaagatgca gaaggcatct tggaggactt gcagtcatac agaggagctg gccacgaaat 120
acgagaggca atccagcatc cagcanatga gaagttgcaa gagaaggcat ggggtgcagt 180
tgttccacta gtaggcaaat taaagaaatt ttacgaattt tctcagaggt tagaagcagc 240
attaagaggt cttctgggag ccttaacaag taccccatat tctcccaccc agcatctana 300
gcgagagcag gctcttgcta aacagtttgc anaaattctt catttcacac tccggtttga 360
tgaactcaag atgacaaatc ctgccataca gaatga 396

<210> 152
<211> 396
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 249
<223> n = A,T,C or G

<400> 152
acgcagcgct cggcttcctg gtaattcttc acctcttttc tcagctccct gcagcatggg 60
tgctgggccc tccttgctgc tcgccgccct cctgctgctt ctctccggcg acggcgccgt 120
gcgctgcgac acacctgcca actgcaccta tcttgacctg ctgggcacct gggtcttcca 180
ggtgggctcc agcggttccc agcgcgatgt caactgctcg gttatgggac cacaagaaaa 240
aaaagtagng gtgtaccttc agaagctgga tacagcatat gatgaccttg gcaattctgg 300
ccatttcacc atcatttaca accaaggctt tgagattgtg ttgaatgact acaagtggtt 360
tgcctttttt aagtataaag aagagggcag caaggt 396

<210> 153
<211> 396
<212> DNA
<213> Homo sapiens

<400> 153
ccagagacaa cttcgcggtg tggtgaactc tctgaggaaa aacacgtgcg tggcaacaag 60
tgactgagac ctagaaatcc aagcgttgga ggtcctgagg ccagcctaag tcgcttcaaa 120
atggaacgaa ggcgtttgcg gggttccatt cagagccgat acatcagcat gagtgtgtgg 180
acaagcccac ggagacttgt ggagctggca gggcagagcc tgctgaagga tgaggccctg 240
gccattgccg ccctggagtt gctgcccagg gagctcttcc cgccactctt catggcagcc 300
tttgacggga gacacagcca gaccctgaag gcaatggtgc aggcctggcc cttcacctgc 360
ctccctctgg gagtgctgat gaagggacaa catctt 396

<210> 154
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 42, 45, 59, 82
<223> n = A,T,C or G

<400> 154
acagcaaacc tcctcacagc ccactggtcc tcaagagggg cnacntcttc acacatcanc 60
acaactacgc attgcctccc tncactcgga aggactatcc tgctgccaag agggtcaagt 120
tggacagtgt cagagtcctg agacagatca gcaacaaccg aaaatgcacc agccccaggt 180
cctcggacac cgaggagaat gtcaagaggc gaacacacaa cgtcttggag cgccagagga 240
ggaacgagct aaaacggagc tttttgccc tgcgtgacca gatcccggag ttggaaaaca 300
atgaaaaggc ccccaaggta gttatcctta aaaaagccac agcatacatc ctgtccgtcc 360
aagcagagga gcaaaagctc atttctgaag aggact 396

<210> 155
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 17, 202, 280, 339
<223> n = A,T,C or G

<400> 155
tttttttttt tgaananaca ggtctttaat gtacggagtc tcacaaggca caaacaccct 60
caccaggacc aaataaataa ctccacggtt gcaggaaggc gcggtctggg gaggatgcgg 120
catctgagct ctcccagggc tggtgggcga gccgggggtc tgcagtctgt gaggggcctc 180
ctgggtgtgt ccgggcctct anagcgggtc cagtctccag gatggggatc gctcactcac 240
tctccgagtc ggagtagtcc gccacgaggg aggagccgan actgcagggg tgccgcgtgt 300
cggggggtgtc agctgcctcc tgggaggagc ctgctggcna caggggcttg tcctgacggc 360
tcccttcctg cccccctcggg ctgctgcact tggggg 396

<210> 156
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 30, 32, 37, 309, 332
<223> n = A,T,C or G

<400> 156
gaaggggggc ngggcagggg cggaatgtan anattantgc catgattgaa gatttaagaa 60
acgtgagatt caggattttc accacatccc catttagtta gcttgctcgt ttggctggtg 120
caaatgccag atggattatg aacaatgaca gtaaattaat gcaacataat caggtaatga 180
tgccaagcgt atctggtgtt ccaggtattg tacctttacc ggaacaaatc agtaaatcca 240
caatccctgg cacctgttag gcagctatta acctagtaaa tgctccccca tcccatctca 300
atcagcaang acaatcaaaa acatttgctt tnagtggcag gaacactggt acatttttac 360
ttgctccaag ggctgtgcca acgctccctc tctctg 396

<210> 157
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 121, 202, 204, 255, 314, 332, 368
<223> n = A,T,C or G

<400> 157
tttttttttt tttttgggga atgtaaatct tttattaaaa cagttgtctt tccacagtag 60
taaagctttg gcacatacag tataaaaaat aatcacccac cataattata ccaaattcct 120
nttatcaact gcatactaag tgttttcaat acaattttt ccgtataaaa atactgggaa 180
aaattgataa ataacaggta ananaaagat atttctaggc aattactagg atcatttgga 240
aaaagtgagt actgnggata tttaaaatat cacagtaaca agatcatgct tgttcctaca 300
gtattgcggg ccanacactt aagtgaaagc anaagtgttt gggtgacttt cctacttaaa 360
attttggnca tatcatttca aaacatttgc atcttg 396

<210> 158
<211> 396

<212> DNA
<213> Homo sapiens

<400> 158
tttccgaaga cgggcagctt cagagaagag gattattcgg gagattgctg gtgtggccca 60
tagactcttt ggcatagact ctttcgcagg cagccactct gagtgtggcc agttctataa 120
ccatccccaa actagctgga gcctgatgga taggaacggg tagtctgtcc tcttccccat 180
aaaaatgttc caaaaagtta tctccagaga gagtccctta tgaagacagt tgccaagctg 240
tattctcatt ctttaaacca atacccaggt cagggctagt tcacactagc actgttaggg 300
acatggtgtg gctagaaatg aattgagtgt gacttctccc tacaacccca ggcccaggga 360
                                                                   396
taggaggagg cagaggggtg cctggagttt ctgcac

<210> 159
<211> 396
<212> DNA
<213> Homo sapiens

<400> 159
tccgcgcgtt gggaggtgta gcgcggctct gaacgcgctg agggccgttg agtgtcgcag 60
gcggcgaggg cgcgagtgag gagcagaccc aggcatcgcg cgccgagaag gccgggcgtc 120
cccacactga aggtccggaa aggcgacttc cgggggcttt ggcacctggc ggaccctccc 180
ggagcgtcgg cacctgaacg cgaggcgctc cattgcgcgt gcgcgttgag gggcttcccg 240
cacctgatcg cgagacccca acggctggtg gcgtcgcctg cgcgtctcgg ctgagctggc 300
catggcgcag ctgtgcgggc tgaggcggag ccgggcgttt ctcgccctgc tgggatcgct 360
                                                                   396
gctcctctct ggggtcctgg cggccgaccg agaacg

<210> 160
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 96, 102, 122, 124, 129, 146, 148, 184, 189, 196, 205, 208,
229, 246, 259, 261, 269, 272, 281, 297, 305, 308, 327, 331,
337, 338, 339, 343, 346, 354, 366, 367, 369, 378, 379, 380,
381, 391, 395
<223> n = A,T,C or G

<400> 160
ggaaaccttc tcaactaaga gaacatcatt tctggcaaac tatttttgtt agctcacaat 60
atatgtcgta cactctacaa tgtaaatagc actganccac ancttacaga aggtaaaaag 120
angnataana acttccttta caaaanantt cctgttgttc ttaatactcc ccattgctta 180
tganaattnt ctatangtct ctcangantg ttcgcaccca tttcttttnt aacttctact 240
aaaaanccat ttacattgna nagtgtacna cntatatttg ngagctaaca aaaaatngtt 300
ttccnganat gatgttcttt tagtttnaga nggttcnnnc aanttnctac tccngcccgc 360
                                                                   396
cactgnncnc cacatttnnn naattacacc ncacng

<210> 161
<211> 396
<212> DNA
<213> Homo sapiens

<220>

```
<221> misc_feature
<222> 271, 273, 325, 364
<223> n = A,T,C or G
```

```
<400> 161
tttttgtttg attattttta ttataatgaa attaaactta tgactattac agtatgctca 60
gcttaaaaca tttatgagta ctgcaaggac taacagaaac aggaaaaatc ctactaaaaa 120
tatttgttga tgggaaatca ttgtgaaagc aaacctccaa atattcattt gtaagccata 180
agaggataag cacaaccata tgggaggaga taaccagtct ctcccttcat atatattctt 240
ttttatttct tggtatacct tcccaaaaca nanacattca acagtagtta gaatggccat 300
ctcccaacat tttaaaaaaa ctgcnccccc caatgggtga acaaagtaaa gagtagtaac 360
ctanagttca gctgagtaag ccactgtgga gcctta 396
```

```
<210> 162
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 33, 38, 51, 62, 71, 72, 88, 97, 98, 100, 106, 142, 155, 160,
161, 163, 168, 170, 174, 183, 190, 194, 203, 214, 216, 231,
232, 241, 242, 252, 258, 260, 264, 265, 267, 276, 278, 282,
287, 289, 292, 295, 297, 301, 311, 319, 322, 325
<223> n = A,T,C or G
```

```
<221> misc_feature
<222> 330, 337, 341, 342, 347, 348, 354, 356, 361, 367, 368, 375,
379, 385, 391, 394, 395
<223> n = A,T,C or G
```

```
<400> 162
tttttttttt tttttttttt tttttttttt ttnggggncc aaattttttt ntttgaagga 60
angggacaaa nnaaaaaact taaggggntg ttttggnncn acttanaaaa aagggaaagg 120
aaaccccaac atgcatgccc tnccttgggg accanggaan ncnccccncn ggtntgggga 180
aantaacccn aggnttaact ttnattatca ctgncnccca ggggggggctt nnaaaaaaaa 240
nnttcccca anccaaantn gggnncnccc attttncnca anttggncnc cnggncnccc 300
natttttga ngggtttcnc cngcncattn agggaanggg nntcaannaa accncncaaa 360
ngggggnnat ttttntcang ggccnatttg ngcnnt 396
```

```
<210> 163
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<400> 163
cactgtccgg ctctaacaca gctattaagt gctacctgcc tctcaggcac tctcctcgcc 60
cagtttctga ggtcagacga gtgtctgcga tgtcttcccg cactctattc ccccagcctc 120
tttctgcttt catgctcagc acatcatctt cctaggcagt ctcttcccca aagtctcacc 180
ttttcttcca atagaaaatt ccgcttgacc tttggtgcac tgcccacttc ccagctccac 240
tggcccaagt ctgagccgga ggcccttgtt ttgggggcgg ggggagagtt ggatgtgatt 300
gcccttgaag aacaaggctg acctgagagg ttcctggcgc cctgaggtgg ctcagcacct 360
gcccagggta ggcctggcat gagggttag gtcagc 396
```

```
<210> 164
<211> 396
<212> DNA
<213> Homo sapiens

<400> 164
gacacgcggc ggtgtcctgt gttggccatg gccgactacc tgattagtgg gggcacgtcc   60
tacgtgccag acgacggact cacagcacag cagctcttca actgcggaga cggcctcacc  120
tacaatgact ttctcattct ccctgggtac atcgacttca ctgcagacca ggtggacctg  180
acttctgctc tgaccaagaa aatcactctt aagaccccac tggtttcctc tcccatggac  240
acagtcacag aggctgggat ggccatagca atggcgctta caggcggtat tggcttcatc  300
caccacaact gtacacctga attccaggcc aatgaagttc ggaaagtgaa gaaatatgaa  360
cagggattca tcacagaccc tgtggtcctc agcccc                            396


<210> 165
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 29, 33, 55, 57, 65, 77, 82, 87, 98, 101, 103, 114, 118, 124,
169, 171, 173, 183, 186, 188, 216, 219, 227, 230, 242, 243,
245, 252, 265, 273, 290, 296, 321, 324, 332, 338, 340, 342,
345, 359, 372, 380
<223> n = A,T,C or G


<400> 165
tttttttttt tttttttttt tttttttcang ggncactgag gctttttatt ttgancncaa   60
aaccnccggg gatctancct gnggccnccc cggaaatnac ncnaggctca catnactnta  120
aacncttggg ggaaagggag gcaaaaaaaa caatgacttg ggccaattnc ncnactgcaa  180
agntananct gccaacaggg ctccagggag cttggnttnt gtaaaanttn taaggaagcg  240
gnncnaactc cncgggggg gggcnctaac tancagggac ccctgcaagn gttggncggg  300
ggcctcaacc tgcctgagct nacncaaggg gnggggtntn tntanccaac aggggaccna  360
agggcttgcc tnccacagn ttacttggcc aagggg                            396


<210> 166
<211> 396
<212> DNA
<213> Homo sapiens


<220>
<221> misc_feature
<222> 151, 255
<223> n = A,T,C or G


<400> 166
tttttcaaa ttcagagcat ttttattaaa agaacaaaat attaaggcac aaaatacatc   60
aatttttcaa atgaaaaccc ttcaaacggt tatgtcctac attcaacgaa acttcttcca  120
aattacggaa taatttaact ttttaaaata naaaaataca agttcttaaa tgcctaaaat  180
ttctccccaa ataaatgttt tcttagtttt aatgaagtct cttcatgcag tactgagctc  240
caatattata atgtncactt ccttaaaaat ctagttttgc cactatata cattcaatat  300
gtttaaccag tatattaacc agtatattaa ccaatatgtt aaacttcttt taagtataag  360
gcttggtatt ttgtattgct tattgcatgc tttgat                          396
```

<210> 167
<211> 396
<212> DNA
<213> Homo sapiens

<400> 167
tggcggcagc ggcggtggcg gtggctgagc agaggacccg gcgggcggcc tcgcgggtca 60
ggacacaatg tttgcacgag gactgaagag gaaatgtgtt ggccacgagg aagacgtgga 120
gggagccctg gccggcttga agacagtgtc ctcatacagc ctgcagcggc agtcgctcct 180
ggacatgtct ctggtgaagt tgcagctttg ccacatgctt gtggagccca atctgtgccg 240
ctcagtcctc attgccaaca cggtccggca gatccaagag gagatgacgc aggatgggac 300
gtggcgcaca gtggcacccc aggctgcaga gcgggcgccg ctcgaccgct tggtctccac 360
ggagatcctg tgccgtgcag cgtgggggca agaggg 396

<210> 168
<211> 396
<212> DNA
<213> Homo sapiens

<400> 168
taggatggta agagtattat aaggattggt acaaggcatg atgagtcctt ttgcttttag 60
gcttttgact tctggtttta gactttcttt agcttctgtt gttagacaac attgtgcaag 120
cttggttttt ataagtttgc atggattaaa ctgaacttaa tgaaattgtc cctcccccca 180
aattctcagc acaatttta ggcccacaag gagtcaagca cctcaaggag atcttcagtt 240
tgaacttggt gtagacacag ggatactgat gaatcaatat tcaaattagc tgttacctac 300
ttaagaaaga gaggagacct tggggatttc gaggaagggt tcataaggga gattttagct 360
gagaaatacc atttgcacag tcaatcactt ctgacc 396

<210> 169
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16, 58, 76, 84, 99, 111, 114, 124, 136, 140, 161, 167, 184,
189, 204, 206, 210, 228, 230, 232, 243, 275, 277, 289, 301,
303, 312, 319, 321, 323, 325, 333, 345, 349, 355, 359, 364,
365, 372, 375, 377, 379, 383, 387, 389, 394, 396
<223> n = A,T,C or G

<400> 169
ttttttttt tttcanaatt aaattcttta atacaaaatg ctttttttt tttaaaanat 60
atctgtattt ctttgncgtt gttnaaaaat aaatatgtnc tacggaatat ntcnaaaaac 120
tgcnctaaaa acaaanacgn gatgttaata tcttttcccc ncaattntta cggataaaca 180
gtanccccna taaataaatg atancnaatn ttaaaattaa aaaagganan anatttagta 240
tgnaaaattc tctatttttt cttggtttgg ttttncntat aaaaaacana atagcaatgt 300
ntnttttatc anaatcccnt ntntncctaa acnttttttt ttttntttnc ccccnaatnc 360
aagnngccaa anatntntnt agnatgnana tgtntn 396

<210> 170
<211> 396
<212> DNA

<213> Homo sapiens

<400> 170
tgagaagtac catgccgctt ctgcagagga acaggcaacc atcgaacgca acccctacac 60
catcttccat caagcactga aaaactgtga gcctatgatt gggctggtac ccatcctcaa 120
gggaggccgt ttctaccagg tccctgtacc cctacccgac cggcgtcgcc gcttcctagc 180
catgaagtgg atgatcactg agtgccggga taaaaagcac cagcggacac tgatgccgga 240
gaagctgtca cacaagctgc tggaggcttt ccataaccag ggccccgtga tcaagaggaa 300
gcatgacttg cacaagatgg cagaggccaa ccgtgccctg gcccactacc gctggtggta 360
gagtctccag gaggagccca gggccctctg cgcaag 396

<210> 171
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 133, 224, 260, 264, 268, 279, 283, 317, 322, 338, 360, 370,
371, 378
<223> n = A,T,C or G

<400> 171
ggtcctcgtc gtggtgagcg cagccactca ggctggtcct gggggtgggg ctgtagggga 60
aagtgctaaa gccgctgagt gaagtaagaa ctctgctaga gaggaaaatg ggcttgcttt 120
catcatcatc ctnctcagct ggtggggtca agtgggaagt tctgtcactg ggatctggtt 180
cagtgtctca agaccttgcc ccaccacgga aagccttttt cacntacccc aaaggacttg 240
gagagatgtt agaagatggn tctnaaanat tcctctgcna atntgttttt agctatcaag 300
tggcttcccc ccttaancag gnaaaacatg atcagcangt tgctcggatg gaaaaactan 360
cttggtttgn naaaaaanct ggaggcttga caatgg 396

<210> 172
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 239, 242, 244, 246, 249, 257, 260, 314, 329, 355, 372, 378,
385, 387, 388, 395
<223> n = A,T,C or G

<400> 172
agccttgggc caccctcttg gagcatctgg ctgtcgaatt cttgtgaccc tgttacacac 60
actggagaga atgggcagaa gtcgtggtgt tgcagccctg tgcattgggg gtgggatggg 120
aatagcaatg tgtgttcaga gagaatgaat tgcttaaact ttgaacaacc tcaatttctt 180
tttaaactaa taaagtacta ggttgcaata tgtgaaaaaa aaaaaaaaag ggcggccgnt 240
cnantntana gggcccnttn aaacccgttg atcaacctcg actgtgcctt ctagttgcca 300
gccatctgtt gttngcccct cccccgtgnc tttcttgacc ttgaaagggg ccccncccct 360
gtctttccta anaaaaanga agaantnncc ttccnt 396

<210> 173
<211> 396
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 209, 210, 232, 244, 270, 275, 284, 341, 343, 349, 359, 364,
368, 376, 380, 382, 388, 389, 390, 392
<223> n = A,T,C or G

<400> 173
aagcatgtgg atatgtttag ctacgtttac tcacagccag cgaactgaca ttaaaataac 60
taacaaacag attctttat gtgatgctgg aactcttgac agctataatt attattcaga 120
aatgactttt tgaaagtaaa agcagcataa agaatttgtc acaggaaggc tgtctcagat 180
aaattatggt aaaattttgc aggggacann cttttttaaga cttgcacaat tnccggatcc 240
tgcnctgact ttggaaaagg catatatgtn ctagnggcat gganaatgcc ccatactcat 300
gcatgcaaat taaacaacca agtttgaatc tttttggggg ngngctatnc tttaacccng 360
tacnggcntt attatntaan gnccctgnnn cntgtg 396

<210> 174
<211> 924
<212> DNA
<213> Homo sapiens

<400> 174
cctgacgacc cggcgacggc gacgtctctt ttgactaaaa gacagtgtcc agtgctccag 60
cctaggagtc tacggggacc gcctcccgcg ccgccaccat gcccaacttc tctggcaact 120
ggaaaatcat ccgatcggaa aacttcgagg aattgctcaa agtgctgggg gtgaatgtga 180
tgctgaggaa gattgctgtg gctgcagcgt ccaagccagc agtggagatc aaacaggagg 240
gagacacttt ctacatcaaa acctccacca ccgtgcgcac cacagagatt aacttcaagg 300
ttggggagga gtttgaggag cagactgtgg atgggaggcc ctgtaagagc ctggtgaaat 360
gggagagtga gaataaaatg gtctgtgagc agaagctcct gaagggagag ggccccaaga 420
cctcgtggac cagagaactg accaacgatg gggaactgat cctgaccatg acggcggatg 480
acgttgtgtg caccagggtc tacgtccgag agtgagtggc cacaggtaga accgcggccg 540
aagcccacca ctggccatgc tcaccgccct gcttcactgc cccctccgtc ccacccctc 600
cttctaggat agcgctcccc ttaccccagt cacttctggg ggtcactggg atgcctcttg 660
cagggtcttg ctttctttga cctcttctct cctcccctac accaacaaag aggaatggct 720
gcaagagccc agatcacca ttccgggttc actccccgcc tccccaagtc agcagtccta 780
gccccaaacc agcccagagc agggtctctc taaaggggac ttgagggcct gagcaggaaa 840
gactggccct ctagcttcta ccctttgtcc ctgtagccta tacagtttag aatatttatt 900
tgttaatttt attaaaatgc ttta 924

<210> 175
<211> 3321
<212> DNA
<213> Homo sapiens

<400> 175
atgaagatt tgatacttgg tatttttctg tttttatgta gtaccccagc ctgggcgaaa 60
gaaaagcatt attacattgg aattattgaa acgacttggg attatgcctc tgaccatggg 120
gaaaagaaac ttatttctgt tgacacggaa cattccaata tctatcttca aaatggccca 180
gatagaattg ggagactata taagaaggcc ctttatcttc agtacacaga tgaaaccttt 240
aggacaacta tagaaaaacc ggtctggctt gggtttttag gccctattat caaagctgaa 300
actggagata aagtttatgt acacttaaaa aaccttgcct ctaggcccta caccttttcat 360
tcacatggaa taacttacta taaggaacat gaggggggcca tctaccctga taacaccaca 420
gattttcaaa gagcagatga caaagtatat ccaggagagc agtatacata catgttgctt 480

```
gccactgaag aacaaagtcc tggggaagga gatggcaatt gtgtgactag gatttaccat 540
tcccacattg atgctccaaa agatattgcc tcaggactca tcggaccttt aataatctgt 600
aaaaaagatt ctctagataa agaaaaagaa aaacatattg accgagaatt tgtggtgatg 660
ttttctgtgg tggatgaaaa tttcagctgg tacctagaag acaacattaa aacctactgc 720
tcagaaccag agaaagttga caaagacaac gaagacttcc aggagagtaa cagaatgtat 780
tctgtgaatg gatacacttt tggaagtctc ccaggactct ccatgtgtgc tgaagacaga 840
gtaaaatggt accttttttgg tatgggtaat gaagttgatg tgcacgcagc tttctttcac 900
gggcaagcac tgactaacaa gaactaccgt attgacacaa tcaacctctt tcctgctacc 960
ctgtttgatg cttatatggt ggcccagaac cctggagaat ggatgctcag ctgtcagaat 1020
ctaaaccatc tgaaagccgg tttgcaagcc tttttccagg tccaggagtg taacaagtct 1080
tcatcaaagg ataatatccg tgggaagcat gttagacact actacattgc cgctgaggaa 1140
atcatctgga actatgctcc ctctggtata gacatcttca ctaaagaaaa cttaacagca 1200
cctggaagtg actcagcggt gttttttgaa caaggtacca caagaattgg aggctcttat 1260
aaaaagctgg tttatcgtga gtacacagat gcctccttca caaatcgaaa ggagagaggc 1320
cctgaagaag agcatcttgg catcctgggt cctgtcattt gggcagaggt gggagacacc 1380
atcagagtaa ccttccataa caaaggagca tatcccctca gtattgagcc gattggggtg 1440
agattcaata agaacaacga gggcacatac tattccccaa attacaaccc ccagagcaga 1500
agtgtgcctc cttcagcctc ccatgtggca cccacagaaa cattcaccta tgaatggact 1560
gtccccaaag aagtaggacc cactaatgca gatcctgtgt gtctagctaa gatgtattat 1620
tctgctgtgg atcccactaa agatatattc actgggctta ttgggccaat gaaaatatgc 1680
aagaaaggaa gtttacatgc aaatgggaga cagaaagatg tagacaagga attctatttg 1740
tttcctacag tatttgatga gaatgagagt ttactcctgg aagataatat tagaatgttt 1800
acaactgcac ctgatcaggt ggataaggaa gatgaagact ttcaggaatc taataaaatg 1860
cactccatga atggattcat gtatgggaat cagccgggtc tcactatgtg caaaggagat 1920
tcggtcgtgt ggtacttatt cagcgccgga aatgaggccg atgtacatgg aatatacttt 1980
tcaggaaaca catatctgtg gagaggagaa cggagagaca cagcaaacct cttccctcaa 2040
acaagtctta cgctccacat gtggcctgac acagagggga cttttaatgt tgaatgcctt 2100
acaactgatc attacacagg cggcatgaag caaaaatata ctgtgaacca atgcaggcgg 2160
cagtctgagg attccacctt ctacctggga gagaggacat actatatcgc agcagtggag 2220
gtggaatggg attattcccc acaaagggag tgggaaaagg agctgcatca tttacaagag 2280
cagaatgttt caaatgcatt tttagataag ggagagtttt acataggctc aaagtacaag 2340
aaagttgtgt atcggcagta tactgatagc acattccgtg ttccagtgga gagaaaagct 2400
gaagaagaac atctgggaat tctaggtcca caacttcatg cagatgttgg agacaaagtc 2460
aaaattatct ttaaaaacat ggccacaagg ccctactcaa tacatgccca tggggtacaa 2520
acagagagtt ctacagttac tccaacatta ccaggtgaaa ctctcactta cgtatggaaa 2580
atcccagaaa gatctggagc tggaacagag gattctgctt gtattccatg ggcttattat 2640
tcaactgtgg atcaagttaa ggacctctac agtggattaa ttggcccccct gattgtttgt 2700
cgaagacctt acttgaaagt attcaatccc agaaggaagc tggaatttgc ccttctgttt 2760
ctagtttttg atgagaatga atcttggtac ttagatgaca acatcaaaac atactctgat 2820
caccccgaga aagtaaacaa agatgatgag gaattcatag aaagcaataa aatgcatgct 2880
attaatggaa gaatgtttgg aaacctacaa ggcctcacaa tgcacgtggg agatgaagtc 2940
aactggtatc tgatgggaat gggcaatgaa atagacttac acactgtaca ttttcacggc 3000
catagcttcc aatacaagca caggggagtt tatagttctg atgtctttga catttttccct 3060
ggaacatacc aaaccctaga aatgtttcca agaacacctg gaatttggtt actccactgc 3120
catgtgaccg accacattca tgctggaatg gaaaccactt acaccgttct acaaaatgaa 3180
gacaccaaat ctggctgaat gaaataaatt ggtgataagt ggaaaaaaga gaaaaaccaa 3240
tgattcataa caatgtatgt gaaagtgtaa aatagaatgt tactttggaa tgactataaa 3300
                                                                  3321
cattaaaaga gactggagca t
```

```
<400> 176
gaaatacttt ctgtcttatt aaaattaata aattattggt ctttacaaga cttggataca 60
ttacagcaga catggaaata taattttaaa aaatttctct ccaacctcct tcaaattcag 120
tcaccactgt tatattacct tctccaggaa ccctccagtg gggaaggctg cgatattaga 180
tttccttgta tgcaaagttt ttgttgaaag ctgtgctcag aggaggtgag aggagaggaa 240
ggagaaaact gcatcataac tttacagaat tgaatctaga gtcttccccg aaaagcccag 300
aaacttctct gcagtatctg gcttgtccat ctggtctaag gtggctgctt cttccccagc 360
catgagtcag tttgtgccca tgaataatac acgacctgtt atttccatga ctgctttact 420
gtatttttaa ggtcaatata ctgtacattt gataataaaa taatattctc ccaaaaaaaa 480
aaaaaaa                                                              487


<210> 177
<211> 3999
<212> DNA
<213> Homo sapiens

<400> 177
caagattcca catttgatgg ggtgactgac aaacccatct tagactgctg tgcctgcgga 60
actgccaagt acagactcac attttatggg aattggtccg agaagacaca cccaaaggat 120
taccctcgtc gggccaacca ctggtctgcg atcatcggag gatcccactc caagaattat 180
gtactgtggg aatatggagg atatgccagc gaaggcgtca aacaagttgc agaattgggc 240
tcacccgtga aaatggagga agaaattcga caacagagtg atgaggtcct caccgtcatc 300
aaagccaaag cccaatggcc agcctggcag cctctcaacg tgagagcagc accttcagct 360
gaattttccg tggacagaac gcgccattta atgtccttcc tgaccatgat gggccctagt 420
cccgactgga acgtaggctt atctgcagaa gatctgtgca ccaaggaatg tggctgggtc 480
cagaaggtgg tgcaagacct gattccctgg gacgctggca ccgacagcgg ggtgacctat 540
gagtcaccca acaaacccac cattccccag gagaaaatcc ggcccctgac cagcctggac 600
catcctcaga gtcctttcta tgacccagag ggtgggtcca tcactcaagt agccagagtt 660
gtcatcgaga gaatcgcacg gaagggtgaa caatgcaata ttgtacctga caatgtcgat 720
gatattgtag ctgacctggc tccagaagag aaagatgaag atgacacccc tgaaacctgc 780
atctactcca actggtcccc atggtccgcc tgcagctcct ccacctgtga caaaggcaag 840
aggatgcgac agcgcatgct gaaagcacag ctggacctca gcgtcccctg ccctgacacc 900
caggacttcc agccctgcat gggccctggc tgcagtgacg aagacggctc cacctgcacc 960
atgtccgagt ggatcacctg gtcgccctgc agcatctcct gcggcatggg catgaggtcc 1020
cgggagaggt atgtgaagca gttcccggag gacggctccg tgtgcacgct gcccactgag 1080
gaaacggaga agtgcacggt caacgaggag tgctctccca gcagctgcct gatgaccgag 1140
tggggcgagt gggacgagtg cagcgccacc tgcggcatgg gcatgaagaa gcggcaccgc 1200
atgatcaaga tgaaccccgc agatggctcc atgtgcaaag ccgagacatc acaggcagag 1260
aagtgcatga tgccagagtg ccacaccatc ccatgcttgc tgtccccatg gtccgagtgg 1320
agtgactgca gcgtgacctg cgggaagggc atgcgaaccc gacagcggat gctcaagtct 1380
ctggcagaac ttggagactg caatgaggat ctggagcagg tggagaagtg catgctccct 1440
gaatgcccca ttgactgtga gctcaccgag tggtcccagt ggtcggaatg taacaagtca 1500
tgtgggaaag gccacgtgat tcgaacccgg atgatccaaa tggagcctca gtttggaggt 1560
gcaccctgcc cagagactgt gcagcgaaaa aagtgccgca tccgaaaatg ccttcgaaat 1620
ccatccatcc aaaagctacg ctggagggag gcccgagaga gccggcggag tgagcagctg 1680
aaggaagagt ctgaaggga gcagttccca ggttgtagga tgcgcccatg gacggcctgg 1740
tcagaatgca ccaaactgtg cggaggtgga attcaggaac gttacatgac tgtaaagaag 1800
agattcaaaa gctcccagtt taccagctgc aaagacaaga aggagatcag agcatgcaat 1860
gttcatcctt gttagcaagg gtacgagttc cccagggctg cactctagat tccagagtca 1920
ccaatggctg gattatttgc ttgtttaaga caatttaaat tgtgtacgct agttttcatt 1980
tttgcagtgt ggttcgccca gtagtcttgt ggatgccaga gacatccttt ctgaatactt 2040
cttgatgggt acaggctgag tggggcgccc tcacctccag ccagcctctt cctgcagagg 2100
agtagtgtca gccaccttgt actaagctga aacatgtccc tctggagctt ccacctggcc 2160
agggaggacg gagactttga cctactccac atggagaggc aaccatgtct ggaagtgact 2220
```

```
atgcctgagt cccagggtgc ggcaggtagg aaacattcac agatgaagac agcagattcc 2280
ccacattctc atctttggcc tgttcaatga aaccattgtt tgcccatctc ttcttagtgg 2340
aactttaggt ctcttttcaa gtctcctcag tcatcaatag ttcctgggga aaaacagagc 2400
tggtagactt gaagaggagc attgatgttg ggtggctttt gttctttcac tgagaaattc 2460
ggaatacatt tgtctcaccc ctgatattgg ttcctgatgc cccccaaca aaaataaata 2520
aataaattat ggctgcttta tttaaatata aggtagctag tttttacacc tgagataaat 2580
aataagctta gagtgtattt ttcccttgct tttgggggtt cagaggagta tgtacaattc 2640
ttctgggaag ccagccttct gaactttttg gtactaaatc cttattggaa ccaagacaaa 2700
ggaagcaaaa ttggtctctt tagagaccaa tttgcctaaa ttttaaaatc ttcctacaca 2760
catctagacg ttcaagtttg caaatcagtt tttagcaaga aaacattttt gctatacaaa 2820
cattttgcta agtctgccca aagccccccc aatgcattcc ttcaacaaaa tacaatctct 2880
gtactttaaa gttattttag tcatgaaatt ttatatgcag agagaaaaag ttaccgagac 2940
agaaaacaaa tctaagggaa aggaatatta tgggattaag ctgagcaagc aattctggtg 3000
gaaagtcaaa cctgtcagtg ctccacacca gggctgtggt cctcccagac atgcatagga 3060
atggccacag gtttacactg ccttcccagc aattataagc acaccagatt cagggagact 3120
gaccaccaag ggatagtgta aaaggacatt ttctcagttg ggtccatcag cagtttttct 3180
tcctgcattt attgttgaaa actattgttt catttcttct tttataggcc ttattactgc 3240
ttaatccaaa tgtgtaccat tggtgagaca catacaatgc tctgaataca ctacgaattt 3300
gtattaaaca catcagaata tttccaaata caacatagta tagtcctgaa tatgtacttt 3360
taacacaaga gagactattc aataaaaact cactgggtct ttcatgtctt taagctaagt 3420
aagtgttcag aaggttcttt tttatattgt cctccacctc catcatttc aataaaagat 3480
agggcttttg ctcccttgtt cttggaggga ccattattac atctctgaac tacctttgta 3540
tccaacatgt tttaaatcct taaatgaatt gctttctccc aaaaaaagca caatataaag 3600
aaacacaaga tttaattatt tttctacttg ggggaaaaa agtcctcatg tagaagcacc 3660
cacttttgca atgttgttct aagctatcta tctaactctc agcccatgat aaagttcctt 3720
aagctggtga ttcctaatca aggacaagcc accctagtgt ctcatgtttg tatttggtcc 3780
cagttgggta cattttaaaa tcctgatttt ggagacttaa aaccaggtta atggctaaga 3840
atgggtaaca tgactcttgt tggattgtta tttttgttt gcaatgggga atttataaga 3900
agcatcaagt ctctttctta ccaaagtctt gttaggtggt ttatagttct tttggctaac 3960
                                                                  3999
aaatcatttt ggaaataaag atttttact acaaaaatg
```

<210> 178
<211> 1069
<212> DNA
<213> Homo sapiens

<400> 178
```
aaaaaagatg aataaatgaa taagagagat gaataaacaa atttacatta catgtgatag 60
ttatcatggt atggccttca tgacaagatg gatgagaata tcactgatag gatattagcc 120
ttctttcata tctttatatt gaaatatggg ctttacttca atttgaaggt ctttcatgaa 180
caataaaaga gagtagaagg actgtctgag aaggcaggag acatataaaa cagatgactg 240
aaagactgac tagctcctgg aaagggaaac atttggaaca tccagagtaa gggcaaatgg 300
gcttctacca gcacaacaaa gagcctccag gtggcaacat ggaagcaggt tatcagagaa 360
aataaatgtg caaattcctt atttacaatg actcacttaa ccccacaaac atgtttcact 420
gctgccttcc ccagttgtcg cttatgtact gttgttacct ttcagttaca tgcctttgat 480
cctaaaattc tctacttttg gtgccttatc agttctttgc aatctgcctg tggttatcag 540
cacttaaagc acaattttga aggggaaaaa aatgataatc accttagtcc caaagaaata 600
atttgtcaaa ctgccttatt agtattaaaa acagacacac tgaatgaagt agcatgatac 660
gcatatatcc tactcagtat cattggcctt ttatcaaatg gggaaactat acttttgtat 720
tacatagttt tagaaatcga aagttagaga ctctttataa gtaatgtcaa ggaacagtaa 780
tttaaaaaca aagttctaac aaatatattg tttgcttaat cacaatgccc tcaacttgta 840
tttgaataac taaataggac atgtcttcct tggagctgtg ggcattagtt cagaagcact 900
acctgcatct taattttcaa aacttaagtt ttattagcaa atcctcttct ctgtaagact 960
tagctatgaa gtggtatatt ttttccaaat atttttctga aaacatttgt tgttgtaact 1020
```

gcacaataaa agtccagttg caattaaaaa aaaaaaaaaa aaaaaaaa   1069

<210> 179
<211> 1817
<212> DNA
<213> Homo sapiens

<400> 179
tgctattctg ccaaaagaca atttctagag tagttttgaa tgggttgatt tcccccactc 60
ccacaaactc tgaagccagt gtctagctta ctaaaaaaag agttgtatat aatatttaag 120
atgctgagta tttcatagga aagctgaatg ctgctgtaaa gtgctcttta agtctttttt 180
tttttaatc cccttctaat gaatgaaact aggggaattt caggggacag agatgggatt 240
tgttgtatga taaactgtat gtagttttta gtctttctgt tttgagaagc agtggttggg 300
gcatttttaa gatggctggc tactcttgtt ttccctcatg ataataaatt tgtcataact 360
cagtaacatg aacttgcccc tagaggtagt tgttaataat tttgaaatat taaggtcttg 420
ccaagcttct gatgattcac acctgtacta ctgattatta agcaggacag actgagcttt 480
ctgttgcaaa taccttggag gagaaagtaa tttctaaata tacagagagg taacttgact 540
atatatgttg catcctgtgc ctcccttcat attaatattt gataaagatt ttaatttatg 600
taaaacttct aaagcagaat caaagctcct cttggggaaa tggcaagtct ttaggatagg 660
caagaccctg tatgaatagt accaaagcat taccgcatgg tagagaacac actcgattaa 720
aaatgttaag ctatctgaaa aataaaatgt gcaagtcttc aggatggcac aaaacaaagg 780
ttaatgcttc ttggggcaca tttcttagag ggcttgctga gtgtgtaaat ataatcgact 840
tttgtttgtg ttacatgact tctgtgactt cattgaaaat ctgcacaatt cagtttcagc 900
tctggattac ttcagttgac ctttgtgaag gtttttatct gtgtagaatg ggtgtttgac 960
ttgttttagc ctattaaatt tttattttct ttcactctgt attaaaagta aaacttacta 1020
aaagaaaaga ggtttgtgtt cacattaaat ggttttggtt tggcttcttt tagtcaggct 1080
ttctgaacat tgagatatcc tgaacttaga gctcttcaat cctaagattt tcatgaaaag 1140
cctctcactt gaacccaaac cagagtactc ttactgcctc ttttctaaat gttcaggaaa 1200
agcattgcca gttcagtctt ttcaaaatga gggagaaaca tttgcctgcc ttgtaataac 1260
aagactcagt gcttatttt taaactgcat tttaaaaatt ggatagtata ataacaataa 1320
ggagtaagcc acctttata ggcaccctgt agttttatag ttcttaatct aaacatttta 1380
tatttccttc ttttggaaaa aacctacatg ctacaagcca ccatatgcac agactataca 1440
gtgagttgag ttggctctcc cacagtcttt gaggtgaatt acaaaagtcc agccattatc 1500
atcctcctga gttatttgaa atgatttttt ttgtacattt tggctgcagt attggtggta 1560
gaatatacta taatatggat catctctact tctgtatttta tttatttatt actagacctc 1620
aaccacagtc ttctttttcc ccttccacct ctctttgcct gtaggatgta ctgtatgtag 1680
tcatgcactt tgtattaata tattagaaat ctacagatct gttttgtact ttttatactg 1740
ttggatactt ataatcaaaa cttttactag ggtattgaat aaatctagtc ttactagaaa 1800
                                                                    1817
aaaaaaaaaa aaaaaaa

<210> 180
<211> 2382
<212> DNA
<213> Homo sapiens

<400> 180
acttttattg gaagcagcag ccacatccct gcatgatttg cattgcaata caaccataac 60
cgggcagcca ctcctgagtg ataaccagta taacataaac gtagcagcct caatttttgc 120
ctttatgacg acagcttgtt atggttgcag tttgggtctg gctttacgaa gatggcgacc 180
gtaacactcc ttagaaactg gcagtcgtat gttagtttca cttgtctact ttatatgtct 240
gatcaatttg gataccattt tgtccagatg caaaaacatt ccaaaagtaa tgtgtttagt 300
agagagagac tctaagctca agttctggtt tatttcatgg atggaatgtt aatttttatta 360
tgatattaaa gaaatggcct tttatttac atctctcccc tttttcccct tcccccttta 420
ttttcctcct tttctttctg aaagtttcct tttatgtcca taaaatacaa atatattgtt 480

```
cataaaaaat tagtatccct tttgtttggt tgctgagtca cctgaacctt aattttaatt 540
ggtaattaca gcccctaaaa aaaacacatt tcaaataggc ttcccactaa actctatatt 600
ttagtgtaaa ccaggaattg gcacactttt tttagaatgg gccagatggt aaatatttat 660
gcttcacggt ccatacagtc tctgtcacaa ctattcagtt ctgctagtat agcgtgaaag 720
cagctataca caatacagaa atgaatgagt gtggttatgt tctaataaaa cttatttata 780
aaaacaaggg gaggctgggt ttagcctgtg ggccatagtt tgtcaaccac tggtgtaaaa 840
ccttagttat atatgatctg cattttcttg aactgatcat tgaaaactta taaacctaac 900
agaaaagcca cataatattt agtgtcatta tgcaataatc acattgcctt tgtgttaata 960
gtcaaatact tacctttgga gaatacttac ctttggagga atgtataaaa tttctcaggc 1020
agagtcctgg atataggaaa aagtaattta tgaagtaaac ttcagttgct taatcaaact 1080
aatgatagtc taacaactga gcaagatcct catctgagag tgcttaaaat gggatcccca 1140
gagaccatta accaatactg gaactggtat ctagctactg atgtcttact ttgagtttat 1200
ttatgcttca gaatacagtt gtttgccctg tgcatgaata tacccatatt tgtgtgtgga 1260
tatgtgaagc ttttccaaat agagctctca gaagaattaa gttttttactt ctaattattt 1320
tgcattactt tgagttaaat ttgaatagag tattaaatat aaagttgtag attcttatgt 1380
gtttttgtat tagcccagac atctgtaatg ttttgcact ggtgacagac aaaatctgtt 1440
ttaaaatcat atccagcaca aaaactattt ctggctgaat agcacagaaa agtattttaa 1500
cctacctgta gagatcctcg tcatggaaag gtgccaaact gttttgaatg gaaggacaag 1560
taagagtgag gccacagttc ccaccacacg agggcttttg tattgttcta cttttttcagc 1620
cctttacttt ctggctgaag catccccttg gagtgccatg tataagttgg gctattagag 1680
ttcatggaac atagaacaac catgaatgag tggcatgatc cgtgcttaat gatcaagtgt 1740
tacttatcta ataatcctct agaaagaacc ctgttagatc ttggtttgtg ataaaaatat 1800
aaagacagaa gacatgagga aaaacaaaag gtttgaggaa atcaggcata tgactttata 1860
cttaacatca gatcttttct ataatatcct actactttgg ttttcctagc tccataccac 1920
acacctaaac ctgtattatg aattacatat tacaaagtca taaatgtgcc atatggatat 1980
acagtacatt ctagttggaa tcgtttactc tgctagaatt taggtgtgag attttttgtt 2040
tcccaggtat agcaggctta tgtttggtgg cattaaattg gtttctttaa aatgctttgg 2100
tggcactttt gtaaacagat tgcttctaga ttgttacaaa ccaagcctaa gacacatctg 2160
tgaatactta gatttgtagc ttaatcacat tctagacttg tgagttgaat gacaaagcag 2220
ttgaacaaaa attatggcat ttaagaattt aacatgtctt agctgtaaaa atgagaaagt 2280
gttggttggt tttaaaatct ggtaactcca tgatgaaaag aaatttattt tatacgtgtt 2340
atgtctctaa taaagtattc atttgataaa aaaaaaaaaa aa                   2382
```

<210> 181
<211> 2377
<212> DNA
<213> Homo sapiens

<400> 181
```
atctttatgc aagacaagag tcagccatca gacactgaaa tatattatga tagattatga 60
agaattttct ctgtagaatt atattcttcc tggaacctgg tagagtagat tagactcaaa 120
ggctttttct tccttttctt actcctgttt tttccactca ctcttcccaa gagatttcct 180
aaagcttcaa gcttaataag cctaatagtg aaaaataact gaatttaatg gtataatgaa 240
gttcttcatt tccagacatc tttaattgat cttaaagctc atttgagtct ttgcccctga 300
acaaagacag acccattaaa atctaagaat tctaaatttt cacaactgtt tgagcttctt 360
ttcattttga aggatttgga atatatatgt tttcataaaa gtatcaagtg aaatatagtt 420
acatgggagc tcaatcatgt gcagattgca ttctgttatg ttgactcaat atttaattta 480
caactatcct tatttatatt gacctcaaga actccatttt atgcaatgca gaccactgag 540
atatagctaa cattctttca aataattttc cttttctttt ataattcctc tatagcaaat 600
ttttatgtat aactgattat acatatccat atttatattt cattgattcc aagacatcac 660
tttttcaatt taacatctct gaaattgtga catttcttgc aactgttggc acttcagatg 720
cagtgtttaa aattatgctt gaataaatat tacactaatc caactttacc taaatgttta 780
tgcatctagg caaattttgt tttcttataa agatttgaga gcccatttat gacaaaatat 840
gaaggcgaaa tttaaggaca actgagtcac gcacaactca acatggagcc taactgatta 900
```

```
tcagctcaga tcccgcatat cttgagttta caaaagctct ttcaggtccc catttatact 960
ttacgtgagt gcgaatgatt tcagcaaacc ctaacttaac taacaagaat gggtaggtat 1020
gtctacgttt cattaacaaa tttttattat ttttattcta ttatatgaga tcctttata 1080
ttatcatctc acttttaaac aaaattaact ggaaaaatat tacatggaac tgtcatagtt 1140
aggttttgca gcatcttaca tgtcttgtat caatggcagg agaaaaatat gataaaaaca 1200
atcagtgctg tgaaaaacaa ctttcttcta gagtcctctt actttttatt cttctttatc 1260
atttgtgggt ttttccccct tggctctcac tttaacttca agcttatgta acgactgtta 1320
taaaactgca tatttaaatt atttgaatta tatgaaataa ttgttcagct atctgggcag 1380
ctgttaatgt aaacctgaga gtaataacac tactctttta tctacctgga atactttct 1440
gcataaaatt tatctttgta agctaactct attaatcagg tttcttctag cctctgcaac 1500
ctacttcagt tagaattgtc taatactgct ctattaatca ggtttctacc ctctacaacc 1560
tacttcagtt aaaattgtct aatacagcaa tatttaaaaa aaaaacactg caattgtcaa 1620
ggatggaaaa tgtgtgattt gtgtaaacaa tttttaccaa ctttacattt tcctacagat 1680
aaatgtgaaa ttttgataag aagtctacgc aatgacaagt acggtacata aattttatta 1740
agaatattga gtataaagta ctttaattct aaattataag aaaatataca tttgcacata 1800
ttaatataga aattcatttt gtgtatattt aacatagctt ttaaactatt ttacattagc 1860
tacttcatta tggtttcttg aacttctgaa aaaaattaga aatgtattaa acttatcagt 1920
aacataaaaa cttattttgt ttcacctaac gaatactgcg tttgtaaaaa taaatttaat 1980
atagaatata tttttaaatt aaatatttga atataaaata gctctaagaa agaagcaaat 2040
tatcactgaa catatttctt attatttctg gctttgaatt atacgtaact taaattgtct 2100
taaatgatac agaatattgg agaatatgat actttcacat aatatactat gaacctgttc 2160
atataactct gattgactac taacttctgt tttatgtatt tattaaagag ctgacactgt 2220
agtttgtggt gagatgttta tttttctaac agagcttata acagttagga caaggcattt 2280
aattaatgca tcattctgtt tagtagtagg tgttaatcaa tatgaaattc tctgttttaa 2340
                                                                  2377
aataaaaatg taaaaatcta aaaaaaaaaa aaaaaaa
```

```
<210> 182
<211> 1370
<212> DNA
<213> Homo sapiens

<400> 182
tgtgagcatg gtattttgtc tcggaagaaa aaaatatggg tcaggcgcaa agtaagccca 60
ccccactggg aactatgtta aaaaaaaatt tcaagattta agggagatta cggtgttact 120
atgacaccag aaaaacttag aactttgtgt gaaatagact ggctaacatt agaggtgggt 180
tggctatcag aagaaagcct ggagaggtcc cttgtttcaa aggtatggca caaggtaacc 240
tgtaagccaa agcacccgga ccagtttcta tacatagaca gttacagctg gtttagaccc 300
cttcccctc tccccacagt agttaagaga acagcagcat aagcagctgg cagaggcaag 360
gaaagaccag cagagagaaa aaaaggccat ctataccaat tttaagttaa tttagactga 420
acaagggctt attaatagca aaggataatt gaaatcacaa acttataagg gtttcaacaa 480
aagtgaagtt tgctaaaagt taacagtgta acatgtatta tggtaacttc taatcttgtg 540
gccttagaca gtctagtcaa aacacataaa gaaagtttgc tttaaaaaaa caatggttat 600
cttcaaaaat aaagggggaga ggcagaattt atataaaaag agttatatga taaattcttg 660
tcctgaaata aattaactgg ttgtttaaag aaaagaatgt ttgtaataag tcaaaaagtt 720
aaaacatgtt taaaaaattg tctgcaaaag tcataaaaga aaaaatttta ttaaaaaaat 780
tttaagcaaa aaatgttgta taatttaaaa gtaataaggc ctcctgtgta ctattaagac 840
agatgcaaat tcctggttga aatggatcaa atattccatc tgcacattaa acaaaagcaa 900
ttgttatgct tgtgcacatg gcaggccaga ggccctgatt gtccccttc cactaaggtg 960
gtcctctagt cgaccaggcg tggactgcat ggtagctctt ttccaggatt ctacagcctg 1020
gagtaataag tcatgccaag ctctctctgc tatatcccaa agtctctgcg ggtcagcccc 1080
caagggccat gcagcttctg tctcccaaca ctaagttcac ttcgtgtctc tcacggcaga 1140
gaggaaactt agtattcctt ggagacctga agggatgcag tgagcttaag aattttcaag 1200
agcttatcaa tcagtcagcc cttgttcatc cccgagtgga tgtgtggtgg tattgtggtg 1260
gacctttact gggcactctg ccaaataact agtgtggcac ttgtgcttta gtccatttgg 1320
```

```
ctatcccttt caccctggca tttcatcaac caaaaaaaaa aaaaaaaaaa                    1370
```

<210> 183
<211> 2060
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2003
<223> n = A,T,C or G

<400> 183
```
gtttcagggg aggagacaag gtttcttgtt tgccgtatat gctcctgcag agaagaggaa 60
gtgaccgtgg aggccatctg gccctgtgtt ttgatatggc aaaattaatg aatgcaatca 120
gaagaccttt gagcaagaaa gtaccctgga acaacccaat ttggactgca agtattagtt 180
gggtcttcca ggtgcctctc acagcagcag tcatggcagc agtgactcta gccatgtcca 240
tgaccaactg ctgcataaca aatagccccg agactcagca gcttacaaca gggtccccag 300
cccacagact ggcactggtc catggcttgt taggaacctg actgcgcagc agaaggtgag 360
tgagcattac tgcctgagct ctgcctcctg tcagatcatc aggggcatta gattctcata 420
ggagcgtgaa ccctattgca aaccgcgcat gcgaaggatg tacgttgcgt gctccttatg 480
agaatctaac taatgcctga tgatttgagg tggggcagtt tcatccccaa accatctctc 540
tcccttcatg tccatggaaa aattgtcttc tacaaaacca gtccgtggtg ccaaaaaggt 600
tggagactgc tggtttacaa ccgcaatgaa cattcatcat cccacacagt gtcagagggt 660
cgggaacacg ggtgccctgc ctgtgtgctt ccggttccag atttctcagt gggttgtgat 720
caaggtatca gcggaggccg tattcatctg caagcttgac caggaataga agagccactt 780
catgggtggc tcactcagat gccagcaggt cagtgctggt ggctggcagg cagcctcagc 840
tcctcacctc atggatctct cctgagcaca gtttttcctgt ccttacaacc tggtagctgg 900
cttctccaga gcaggtgact caggagagga caaggtgaga gcccagcacc ttatggtcta 960
gtctcagaag tcacacgcca tcatttctgc aatgtcattt tggggttcca ggtcagctgt 1020
atcactgtgg gaggtgagta tatagatgtc ctagaccatt caggctgcta tgacagaaca 1080
ccatgaactg agtggctcat gaacaacaga aatttcccac agttctgtag gctgggaaat 1140
ccaagatcaa ggtggcagca ggttcagcgt ctgctaagct cctgcttttc atggattgca 1200
tcttctcact gtgtcctcac gtgatggaca gagcaaatga gctctcaggc actagtccca 1260
gccatgagga ctctgctttc atgactcatc actccgcaaa ggcccacctc catcagaaga 1320
cagctgctaa ctgcagctgc catcctccaa gacgggagac acagaattgg gggacatata 1380
cattgagatc tgaaaggcct ggacagcaac aggtggggat cgtgggggca tcttggaggg 1440
tggctgccgc agtaacattt ctgacccatg ctttctgctt gcactcatct cctgcctttg 1500
atcttcatta tctcargcag tccccacaac gactgtatct aggagttcat tttaccctca 1560
ttttacagat gaaacgtctc agagggtaat gtgcttgccc agtgtctcac aaatgcaaag 1620
tcactgaggt aggatttcaa cctaggtcca atcatctctg cagcattagg ggttcaccat 1680
tgccatagac ttaactgtgt cccccaaaat ttgtatgttg aagccctacc agcctccccc 1740
ccccaatgtg ctgatgtttg gagaaagggc ctttgggagg taattaggtt tagatgagat 1800
catgagggtg ggactctcat aatggcatta atgccatcag gtgaagagat accagagacc 1860
ttgtgtcctc tctctctgca atgtgaggac acagtgagaa ggcagctgtc tgcaagctgg 1920
gaagagagta ctgaccagga acttaatcag agggcatctt gatcttggac ttcccagcct 1980
ccagaactct gaaaagttaa tgnctattat ttaagccacg cagtctatgg aattttgtta 2040
gagccaaccc caagcttact                                            2060
```

<210> 184
<211> 3079
<212> DNA
<213> Homo sapiens

<400> 184

```
ggcacaaagt tggggggccgc gaagatgagg ctgtccccgg cgcccctgaa gctgagccgg 60
actccggcac tgctggccct ggcgctgccc ctggccgcgg cgctggcctt ctccgacgag 120
accctggaca aagtgcccaa gtcagagggc tactgtagcc gtatcctgcg cgcccagggc 180
acgcggcgcg agggctacac cgagttcagc ctccgcgtgg agggcgaccc cgacttctac 240
aagccgggaa ccagctaccg cgtaacactt tcagctgctc ctccctccta cttcagagga 300
ttcacattaa ttgccctcag agagaacaga gagggtgata aggaagaaga ccatgctggg 360
accttccaga tcatagacga agaagaaact cagtttatga gcaattgccc tgttgcagtc 420
actgaaagca ctccacggag gaggacccgg atccaggtgt tttggatagc accaccagcg 480
ggaacaggct gcgtgattct gaaggccagc atcgtacaaa aacgcattat ttattttcaa 540
gatgagggct ctctgaccaa gaaactttgt gaacaagatt ccacatttga tggggtgact 600
gacaaaccca tcttagactg ctgtgcctgc ggaactgcca agtacagact cacattttat 660
gggaattggt ccgagaagac acacccaaag gattaccctc gtcgggccaa ccactggtct 720
gcgatcatcg gaggatccca ctccaagaat tatgtactgt gggaatatgg aggatatgcc 780
agcgaaggcg tcaaacaagt tgcagaattg ggctcacccg tgaaaatgga ggaagaaatt 840
cgacaacaga gtgatgaggt cctcaccgtc atcaaagcca aagcccaatg gccagcctgg 900
cagcctctca acgtgagagc agcaccttca gctgaatttt ccgtggacag aacgcgccat 960
ttaatgtcct tcctgaccat gatgggccct agtcccgact ggaacgtagg cttatctgca 1020
gaagatctgt gcaccaagga atgtggctgg gtccagaagg tggtgcaaga cctgattccc 1080
tgggacgctg gcaccgacag cggggtgacc tatgagtcac ccaacaaacc caccattccc 1140
caggagaaaa tccggcccct gaccagcctg gaccatcctc agagtccttt ctatgaccca 1200
gagggtgggt ccatcactca agtagccaga gttgtcatcg agagaatcgc acggaagggt 1260
gaacaatgca atattgtacc tgacaatgtc gatgatattg tagctgacct ggctccagaa 1320
gagaaagatg aagatgacac ccctgaaacc tgcatctact ccaactggtc cccatggtcc 1380
gcctgcagct cctccacctg tgacaaaggc aagaggatgc gacagcgcat gctgaaagca 1440
cagctggacc tcagcgtccc ctgccctgac acccaggact tccagccctg catgggccct 1500
ggctgcagtg acgaagacgg ctccacctgc accatgtccg agtggatcac ctggtcgccc 1560
tgcagcatct cctgcggcat gggcatgagg tcccgggaga ggtatgtgaa gcagttcccg 1620
gaggacggct ccgtgtgcac gctgcccact gaggaaatgg agaagtgcac ggtcaacgag 1680
gagtgctctc ccagcagctg cctgatgacc gagtggggcg agtgggacga gtgcagcgcc 1740
acctgcggca tgggcatgaa gaagcggcac cgcatgatca agatgaaccc cgcagatggc 1800
tccatgtgca aagccgagac atcacaggca gagaagtgca tgatgccaga gtgccacacc 1860
atcccatgct tgctgtcccc atggtccgag tggagtgact gcagcgtgac ctgcgggaag 1920
ggcatgcgaa cccgacagcg gatgctcaag tctctggcag aacttggaga ctgcaatgag 1980
gatctggagc aggtggagaa gtgcatgctc cctgaatgcc ccattgactg tgagctcacc 2040
gagtggtccc agtggtcgga atgtaacaag tcatgtggga aggccacgt gattcgaacc 2100
cggatgatcc aaatggagcc tcagtttgga ggtgcaccct gcccagagac tgtgcagcga 2160
aaaaagtgcc gcatccgaaa atgccttcga aatccatcca tccaaaagcc acgctggagg 2220
gaggcccgag agagccggcg gagtgagcag ctgaaggaag agtctgaagg ggagcagttc 2280
ccaggttgta ggatgcgccc atggacggcc tggtcagaat gcaccaaact gtgcggaggt 2340
ggaattcagg aacgttacat gactgtaaag aagagattca aaagctccca gtttaccagc 2400
tgcaaagaca agaaggagat cagagcatgc aatgttcatc cttgttagca agggtacgag 2460
ttccccaggg ctgcactcta gattccagag tcaccaatgg ctggattatt tgcttgttta 2520
agacaattta aattgtgtac gctagttttc atttttgcag tgtggttcgc ccagtagtct 2580
tgtggatgcc agagacatcc tttctgaata cttcttgatg ggtacaggct gagtggggcg 2640
ccctcacctc cagccagcct cttcctgcag aggagtagtg tcagccacct tgtactaagc 2700
tgaaacatgt ccctctggag cttccacctg gccagggagg acggagactt tgacctactc 2760
cacatggaga ggcaaccatg tctggaagtg actatcctg agtcccaggg tgcggcaggt 2820
aggaaacatt cacagatgaa gacagcagat tccccacatt ctcatctttg gcctgttcaa 2880
tgaaaccatt gtttgcccat ctcttcttag tggaacttta ggtctctttt caagtctcct 2940
cagtcatcaa tagttcctgg ggaaaaacag agctggtaga cttgaagagg agcattgatg 3000
ttgggtggct tttgttcttt cactgagaaa ttcggaatac atttgtctca cccctgatat 3060
tggttcctga tgccccagc 3079
```

<210> 185
<211> 3000
<212> DNA
<213> Homo sapiens

<400> 185
gtttcagggg aggagacaag gtttcttgtt tgccgtatat gctcctgcag agaagaggaa 60
gtgaccgtgg aggccatctg gccctgtgtt ttgatatggc aaaattaatg aatgcaatca 120
gaagaccttt gagcaagaaa gtaccctgga acaacccaat ttggactgca agtattagtt 180
gggtcttcca ggtgcctctc acagcagcag tcatggcagc agtgactcta gccatgtcca 240
tgaccaactg ctgcataaca aatagccccg agactcagca gcttacaaca gggtccccag 300
cccacagact ggcactggtc catggcttgt taggaacctg actgcgcagc agaaggtgag 360
tgagcattac tgcctgagct ctgcctcctg tcagatcatc aggggcatta gattctcata 420
ggagcgtgaa ccctattgca aaccgcgcat gcgaaggatg tacgttgcgt gctccttatg 480
agaatctaac taatgcctga tgatttgagg tggggcagtt tcatccccaa accatctctc 540
tcccttcatg tccatggaaa aattgtcttc tacaaaacca gtccgtggtg ccaaaaaggt 600
tggagactgc tggtttacaa ccgcaatgaa cattcatcat cccacacagt gtcagagggt 660
cgggaacacg ggtgccctgc ctgtgtgctt ccggttccag atttctcagt gggttgtgat 720
caaggtatca gcggaggccg tattcatctg caagcttgac caggaataga agagccactt 780
catgggtggc tcactcagat gccagcaggt cagtgctggt ggctggcagg cagcctcagc 840
tcctcacctc atggatctct cctgagcaca gttttcctgt ccttacaacc tggtagctgg 900
cttctccaga gcaggtgact caggagagga caaggtgaga gccacagcac cttatggtct 960
agtctcagaa gtcacacgcc atcatttctg caatgtcatt ttggggttcc aggtcagctg 1020
tatcactgtg ggaggtgagt atatagatgt cctagaccat tcaggctgct atgacagaac 1080
accatgaact gagtggctca tgaacaacag aaatttccca cagttctgta ggctgggaaa 1140
tccaagatca aggtggcagc aggttcagcg tctgctaagc tcctgctttt catggattgc 1200
atcttctcac tgtgtcctca cgtgatggac agagcaaatg agctctcagg cactagtccc 1260
agccatgagg actctgcttt catgactcat cactccgcaa aggcccacct ccatcagaag 1320
acagctgcta actgcagctg ccatcctcca agacgggaga cacagaattg ggggacatat 1380
acattgagat ctgaaaggcc tggacagcaa caggtgggga tcgtgggggc atcttggagg 1440
gtggctgccg cagtaacatt tctgacccat gctttctgct tgcactcatc tcctgccttt 1500
gatcttcatt atctcaggca gtccccacaa cgactgtatc taggagttca ttttacccotc 1560
attttacaga tgaaacgtct cagagggtaa tgtgcttgcc cagtgtctca caaatgcaaa 1620
gtcactgagg taggatttca acctaggtcc aatcatctct gcagcattag gggttcacca 1680
ttgccataga cttaactgtg tcccccaaaa tttgtatgtt gaagccctac cagcctcccc 1740
cccccaatgt gctgatgttt ggagaaaggg cctttgggag gtaattaggt ttagatgaga 1800
tcatgagggt gggactctca taatggcatt aatgccatca ggtgaagaga taccagagac 1860
cttgtgtcct ctctctctgc aatgtgagga cacagtgaga aggcagctgt ctgcaagctg 1920
ggaagagagt actgaccagg aacttaatca gagggcatct tgatcttgga cttcccagcc 1980
tccagaactc tgaaaagtta atgtctatta tttaagccac gcagtctatg gaattttgtt 2040
agagccaacc caagcttact aagataatca gtatgctgca ctttctataa atgtaatttt 2100
tacatttata aaaacaaaac aagagatttg ctgctctata caactgtac ctacattgta 2160
gatggaataa caaatctaca tacagattta gtaatctcta tgtagatata gaacatagtg 2220
tatctaatag agacatagtg tctgtggtct gatgttaatt ttaggaatta gccgtcactg 2280
attgggcctt gtccaggtat tcttctccct tgtcctggct ctgtaaccta gttatccttg 2340
tctttgctaa cccataacca actattgtat caggactatt atgccactac agatgatgca 2400
gtttgggttt actgtttctc accatttaga caatacttca tcaaatatat ttctgtatga 2460
ctttagtgat atcagttttt gattcattcc tgcatagatc tgggcaaatt gtagacctta 2520
ggaggtgtat tcaccatcca gttctctgga actgcttatg acatttttct ctgagctttc 2580
ttgtcccaaa aggagccttc ctaaaatagt cttttaagtgc ctttaaaaag agaaagagaa 2640
attaagagaa aaaaaacccc aaactcattc ctttactctg atgtgacagt cctcccagga 2700
cactgcagtg gcctgagttt tgctgttaat ttcattcact tatgtttggg ctatgtaaat 2760
tctgcctaga gctggaatgt cattatgtaa agaaatattt tttgtttata ttctttaata 2820
gtaccagtaa tgtatatctt attcagcttc gagaatataa ttgggttgtt tataaaaacc 2880

```
acacatcatc aaactcacat tgtaacgatt atttcacttt tcaaaaaaaa tggcattaga 2940
aaaacttgaa tgatgttagt tatcttaaag aagtgtgtac tatgtttaaa aaaaaaaaaa 3000
```

<210> 186
<211> 807
<212> PRT
<213> Homo sapiens

<400> 186

```
Met Arg Leu Ser Pro Ala Pro Leu Lys Leu Ser Arg Thr Pro Ala Leu
1               5                   10                  15
Leu Ala Leu Ala Leu Pro Leu Ala Ala Ala Leu Ala Phe Ser Asp Glu
            20                  25                  30
Thr Leu Asp Lys Val Pro Lys Ser Glu Gly Tyr Cys Ser Arg Ile Leu
        35                  40                  45
Arg Ala Gln Gly Thr Arg Arg Glu Gly Tyr Thr Glu Phe Ser Leu Arg
    50                  55                  60
Val Glu Gly Asp Pro Asp Phe Tyr Lys Pro Gly Thr Ser Tyr Arg Val
65                  70                  75                  80
Thr Leu Ser Ala Ala Pro Pro Ser Tyr Phe Arg Gly Phe Thr Leu Ile
                85                  90                  95
Ala Leu Arg Glu Asn Arg Glu Gly Asp Lys Glu Glu Asp His Ala Gly
            100                 105                 110
Thr Phe Gln Ile Ile Asp Glu Glu Glu Thr Gln Phe Met Ser Asn Cys
            115                 120                 125
Pro Val Ala Val Thr Glu Ser Thr Pro Arg Arg Arg Thr Arg Ile Gln
    130                 135                 140
Val Phe Trp Ile Ala Pro Pro Ala Gly Thr Gly Cys Val Ile Leu Lys
145                 150                 155                 160
Ala Ser Ile Val Gln Lys Arg Ile Ile Tyr Phe Gln Asp Glu Gly Ser
                165                 170                 175
Leu Thr Lys Lys Leu Cys Glu Gln Asp Ser Thr Phe Asp Gly Val Thr
            180                 185                 190
Asp Lys Pro Ile Leu Asp Cys Cys Ala Cys Gly Thr Ala Lys Tyr Arg
    195                 200                 205
Leu Thr Phe Tyr Gly Asn Trp Ser Glu Lys Thr His Pro Lys Asp Tyr
    210                 215                 220
Pro Arg Arg Ala Asn His Trp Ser Ala Ile Ile Gly Gly Ser His Ser
225                 230                 235                 240
Lys Asn Tyr Val Leu Trp Glu Tyr Gly Gly Tyr Ala Ser Glu Gly Val
                245                 250                 255
Lys Gln Val Ala Glu Leu Gly Ser Pro Val Lys Met Glu Glu Glu Ile
            260                 265                 270
Arg Gln Gln Ser Asp Glu Val Leu Thr Val Ile Lys Ala Lys Ala Gln
    275                 280                 285
Trp Pro Ala Trp Gln Pro Leu Asn Val Arg Ala Ala Pro Ser Ala Glu
    290                 295                 300
Phe Ser Val Asp Arg Thr Arg His Leu Met Ser Phe Leu Thr Met Met
305                 310                 315                 320
Gly Pro Ser Pro Asp Trp Asn Val Gly Leu Ser Ala Glu Asp Leu Cys
                325                 330                 335
Thr Lys Glu Cys Gly Trp Val Gln Lys Val Val Gln Asp Leu Ile Pro
            340                 345                 350
```

```
Trp Asp Ala Gly Thr Asp Ser Gly Val Thr Tyr Glu Ser Pro Asn Lys
    355                     360                 365
Pro Thr Ile Pro Gln Glu Lys Ile Arg Pro Leu Thr Ser Leu Asp His
    370             375                 380
Pro Gln Ser Pro Phe Tyr Asp Pro Glu Gly Gly Ser Ile Thr Gln Val
385                 390                 395                     400
Ala Arg Val Val Ile Glu Arg Ile Ala Arg Lys Gly Glu Gln Cys Asn
                405                 410                 415
Ile Val Pro Asp Asn Val Asp Asp Ile Val Ala Asp Leu Ala Pro Glu
                420             425                 430
Glu Lys Asp Glu Asp Asp Thr Pro Glu Thr Cys Ile Tyr Ser Asn Trp
        435                 440                 445
Ser Pro Trp Ser Ala Cys Ser Ser Ser Thr Cys Asp Lys Gly Lys Arg
    450                 455                 460
Met Arg Gln Arg Met Leu Lys Ala Gln Leu Asp Leu Ser Val Pro Cys
465                 470                 475                     480
Pro Asp Thr Gln Asp Phe Gln Pro Cys Met Gly Pro Gly Cys Ser Asp
                485                 490                 495
Glu Asp Gly Ser Thr Cys Thr Met Ser Glu Trp Ile Thr Trp Ser Pro
            500                 505                 510
Cys Ser Ile Ser Cys Gly Met Gly Met Arg Ser Arg Glu Arg Tyr Val
        515                 520                 525
Lys Gln Phe Pro Glu Asp Gly Ser Val Cys Thr Leu Pro Thr Glu Glu
    530                 535                 540
Met Glu Lys Cys Thr Val Asn Glu Glu Cys Ser Pro Ser Ser Cys Leu
545                 550                 555                     560
Met Thr Glu Trp Gly Glu Trp Asp Glu Cys Ser Ala Thr Cys Gly Met
                565                 570                 575
Gly Met Lys Lys Arg His Arg Met Ile Lys Met Asn Pro Ala Asp Gly
            580                 585                 590
Ser Met Cys Lys Ala Glu Thr Ser Gln Ala Glu Lys Cys Met Met Pro
        595                 600                 605
Glu Cys His Thr Ile Pro Cys Leu Leu Ser Pro Trp Ser Glu Trp Ser
    610                 615                 620
Asp Cys Ser Val Thr Cys Gly Lys Gly Met Arg Thr Arg Gln Arg Met
625                 630                 635                     640
Leu Lys Ser Leu Ala Glu Leu Gly Asp Cys Asn Glu Asp Leu Glu Gln
                645                 650                 655
Val Glu Lys Cys Met Leu Pro Glu Cys Pro Ile Asp Cys Glu Leu Thr
                660                 665                 670
Glu Trp Ser Gln Trp Ser Glu Cys Asn Lys Ser Cys Gly Lys Gly His
        675                 680                 685
Val Ile Arg Thr Arg Met Ile Gln Met Glu Pro Gln Phe Gly Gly Ala
    690                 695                 700
Pro Cys Pro Glu Thr Val Gln Arg Lys Lys Cys Arg Ile Arg Lys Cys
705                 710                 715                     720
Leu Arg Asn Pro Ser Ile Gln Lys Pro Arg Trp Arg Glu Ala Arg Glu
                725                 730                 735
Ser Arg Arg Ser Glu Gln Leu Lys Glu Glu Ser Glu Gly Glu Gln Phe
            740                 745                 750
Pro Gly Cys Arg Met Arg Pro Trp Thr Ala Trp Ser Glu Cys Thr Lys
    755                 760                 765
Leu Cys Gly Gly Gly Ile Gln Glu Arg Tyr Met Thr Val Lys Lys Arg
    770                 775                 780
```

```
Phe Lys Ser Ser Gln Phe Thr Ser Cys Lys Asp Lys Lys Glu Ile Arg
785                 790             795                 800
Ala Cys Asn Val His Pro Cys
                805
```

```
<210> 187
<211> 892
<212> DNA
<213> Homo sapiens

<400> 187
tttattgatg tttcaacagg cacttattca aataagttat atatttgaaa acagccatgg 60
taagcatcct tggcttctca cccattcctc atgtggcatg ctttctagac tttaaaatga 120
ggtaccctga atagcactaa gtgctctgta agctcaagga atctgtgcag tgctacaaag 180
cccacaggca gagaaagaac tcctcaagtg cttgtggtca gagactaggt tccatatgag 240
gcacacctat gatgaaggtc ttcacctcca gaaggtgaca ctgttcagag atcctcattt 300
cctggagagt gggagaaaat ccctcctttg ggaaatccct tttcccagca gcagagccca 360
cctcattgct tagtgatcat ttggaaggca ctgagagcct tcaggggctg acagcagaga 420
aatgaaaatg agtacagttc agatggtgga agaagcatgg cagtgacatc ttccatgctc 480
tttttctcag tgtctgcaac tccaaagatc aaggccataa cccaggagac catcaacgga 540
agattagttc tttgtcaagt gaatgaaatc caaaagcacg catgagacca atgaaagttt 600
ccgcctgttg taaaatctat tttcccccaa ggaaagtcct tgcacagaca ccagtgagtg 660
agttctaaaa gatacccttg gaattatcag actcagaaac ttttattttt tttttctgta 720
acagtctcac cagacttctc ataatgctct taatatattg cacttttcta atcaaagtgc 780
gagtttatga gggtaaagct ctactttcct actgcagcct tcagattctc atcattttgc 840
atctattttg tagccaataa aactccgcac tagcaaaaaa aaaaaaaaaa aa       892
```

```
<210> 188
<211> 1448
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1124
<223> n = A,T,C or G

<400> 188
tgtgactcac atttctttta ctgtgacaca ataatgtgat cctaaaactg gcttatcctt 60
gagtgtttac aactcaaaca acttttgaa tgcagtagtt tttttttttt aaaaacaaac 120
ttttatgtca aatttttttt cttagaagta gtcttcatta ttataaattt gtacaccaaa 180
aggccatggg gaactttgtg caagtacctc atcgctgagc aaatggagct tgctatgttt 240
taatttcaga aaatttcctc atatacgtag tgtgtagaat caagtctttt aataattcat 300
tttttcttca taatatttac tcaaagttaa gcttaaaaat aagttttatc ttaaaatcat 360
atttgaagac agtaagacag taaactattt taggaagtca accccattg cactctgtgg 420
cagttattct ggtaaaaata ggcaaaagtg acctgaatct acaatggtgt cccaaagtaa 480
ccaagtaaga gagattgtaa atgataaacc gagctttaaa ggataaagtg ttaataaaga 540
aaggaagctg ggcacatgtc aaaaagggag atcgaaatgt taggtaatca tttagaaagg 600
acagaaaata tttaaagtgg ctcataggta atgaatattt ctgacttaga tgtaaatcca 660
tctggaatct ttacatcctt tgccagctga aacaagaaag tgaagggaca atgatatttc 720
atggtcagtt tattttgtaa gagacagaag aaattatatc tatacattac cttgtagcag 780
cagtacctgg aagccccagc ccgtcacaga agtgtggagg ggggctcctg actagacaat 840
ttccctagcc cttgtgattt gaagcatgaa agttctggca ggttatgagc agcactaggg 900
```

```
ataaagtatg gttttatttt ggtgtaattt aggtttttca acaaagccct tgtctaaaat 960
aaaaggcatt attggaaata tttgaaaact agaaaatgat ggataaaagg gctgataaga 1020
aaatttctga ctgtcagtag aagtgagata agatcctcag aggaaacagt aagaagggat 1080
aatcattaag atagtaaaac aggcaaagca gaatcacatg tgcncacaca catacacatg 1140
taaacattgg aatgcataag ttttaatatt ttagcgctat cagtttctaa atgcattaat 1200
tactaactgc cctctcccaa gattcattta gttcaaacag tatccgtaaa ctaggaataa 1260
tgccacatgc attcaatggg atcttttaag tactcttcag tttgttccaa gaaatgtgcc 1320
tactgaaatc aaattaattt gtattcaatg tgtacttcaa gactgctaat tgtttcatct 1380
gaaagcctac aatgaatcat tgttcamcct tgaaaaataa aattttgtaa atcaaaaaaa 1440
                                                               1448
aaaaaaaa
```

<210> 189
<211> 460
<212> DNA
<213> Homo sapiens

<400> 189
```
ttttgggagc acggactgtc agttctctgg gaagtggtca gcgcatcctg cagggcttct 60
cctcctctgt cttttggaga accagggctc ttctcagggg ctctagggac tgccaggctg 120
tttcagccag gaaggccaaa atcaagagtg agatgtagaa agttgtaaaa tagaaaaagt 180
ggagttggtg aatcggttgt tctttcctca catttggatg attgtcataa ggttttttagc 240
atgttcctcc ttttcttcac cctcccctt tttcttctat taatcaagag aaacttcaaa 300
gttaatggga tggtcggatc tcacaggctg agaactcgtt cacctccaag catttcatga 360
aaaagctgct tcttattaat catacaaact ctcaccatga tgtgaagagt ttcacaaatc 420
cttcaaaata aaaagtaatg acttaaaaaa aaaaaaaaaa                        460
```

<210> 190
<211> 481
<212> DNA
<213> Homo sapiens

<400> 190
```
aggtggtgga agaaactgtg gcacgaggtg actgaggtat ctgtgggagc taatcctgtc 60
caggtggaag taggagaatt tgatgatggt gcagaggaaa ccgaagagga ggtggtggcg 120
gaaaatccct gccagaacca ccactgcaaa cacggcaagg tgtgcgagct ggatgagaac 180
aacacccca tgtgcgtgtg ccaggacccc accagctgcc cagccccat tggcgagttt 240
gagaaggtgt gcagcaatga caacaagacc ttcgactctt cctgccactt ctttgccaca 300
aagtgcaccc tggagggcac caagaagggc cacaagctcc acctggacta catcgggcct 360
tgcaaataca tccccccttg cctggactct gagctgaccg aattcccct gcgcatgcgg 420
gactggctca agaacgtcct ggtcaccctg tatgagaggg atgaggacaa caaccttctg 480
                                                               481
a
```

<210> 191
<211> 489
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 312, 455
<223> n = A,T,C or G

<400> 191
```
atataaatta gactaagtgt tttcaaataa atctaaatct tcagcatgat gtgttgtgta 60
```

```
taattggagt agatattaat taagtcccct gtataatgtt ttgtaatttt gcaaaacata 120
tcttgagttg tttaaacagt caaaatgttt gatattttat accagcttat gagctcaaag 180
tactacagca aagcctagcc tgcatatcat tcacccaaaa caaagtaata gcgcctcttt 240
tattattttg actgaatgtt ttatggaatt gaaagaaaca tacgttcttt tcaagacttc 300
ctcatgaatc tntcaattat aggaaaagtt attgtgataa aataggaaca gctgaaagat 360
tgattaatga actattgtta attcttccta ttttaatgaa tgacattgaa ctgaattttt 420
tgtctgttaa atgaacttga tagctaataa aaagncaact agccatcaaa aaaaaaaaaa 480
aaaaaaaaa                                                         489
```

```
<210> 192
<211> 516
<212> DNA
<213> Homo sapiens
```

```
<400> 192
acttcaaagc cagctgaagg aaagaggaag tgctagagag agccccttc agtgtgcttc 60
tgacttttac ggacttggct tgttagaagg ctgaaagatg atggcaggaa tgaaaatcca 120
gcttgtatgc atgctactcc tggctttcag ctcctggagt ctgtgctcag attcagaaga 180
ggaaatgaaa gcattagaag cagatttctt gaccaatatg catacatcaa agattagtaa 240
agcacatgtt ccctcttgga agatgactct gctaaatgtt tgcagtcttg taaataattt 300
gaacagccca gctgaggaaa caggagaagt tcatgaagag gagcttgttg caagaaggaa 360
cttcttactg ctttagatgg ctttagcttg gaagcaatgt tgacaatata ccagctccac 420
aaaatctgtc acagcagggc ttttcaacac tgggagttaa tccaggaaga tattcttgat 480
actggaaatg acaaaaatgg aaaggaagaa gtcata                          516
```

```
<210> 193
<211> 1409
<212> DNA
<213> Homo sapiens
```

```
<400> 193
tgattctttt ccaaaacttt tagccatagg gtcttttata gacagggata gtaaaatgaa 60
aattgagaaa tataagatga aaaggaatgg taaaaatatc ttttaggggg cttttaattg 120
gtgatctgaa atcttgggag aagctgttct tttcaggcct gaggtgctct tgactgtcgc 180
ctgcgcactg tgtaccccga gcaacattct aagggtgtgc tttcgccttg gctaactcct 240
ttgacctcat tcttcatata gtagtctagg aaaaagttgc aggtaattta aactgtctag 300
tggtacatag taactgaatt tctattccta tgagaaatga gaattattta tttgccatca 360
acacatttta tactttgcat ctccaaattt attgcggcga gacttgtcca ttgtgaaagt 420
tagagaacat tatgtttgta tcatttcttt cataaaacct caagagcatt tttaagccct 480
tttcatcaga cccagtgaaa actaaggata gatgtttttt aactggaggt ctcctgataa 540
ggagaacaca atccaccatt gtcatttaag taataagaca ggaaattgac cttgacgctt 600
tcttgttaaa tagatttaac aggaacatct gcacatcttt tttccttgtg cactatttgt 660
ttaattgcag tggattaata cagcaagagt gccacattat aactaggcaa ttatccattc 720
ttcaagactt agttattgtc acactaattg atcgtttaag gcataagatg gtctagcatt 780
aggaacatgt gaagctaatc tgctcaaaaa gatcaacaaa ttaatattgt tgctgatatt 840
tgcataattg gctgcaatta tttaatgttt aattgggttg atcaaatgag attcagcaat 900
tcacaagtgc attaatataa acagaactgg ggcacttaaa atgataatga ttaacttata 960
ttgcatgttc tcttcctttc acttttttca gtgtctacat ttcagaccga gtttgtcagc 1020
tttttgaaa acacatcagt agaaaccaag attttaaaat gaagtgtcaa gacgaaggca 1080
aaacctgagc agttcctaaa aagatttgct gttagaaatt ttctttgtgg cagtcattta 1140
ttaaggattc aactcgtgat acaccaaaag aagagttgac ttcagagatg tgttccatgc 1200
tctctagcac aggaatgaat aaatttataa cacctgcttt agcctttgtt ttcaaaagca 1260
caaaggaaaa gtgaaaggga aagagaaaca agtgactgag aagtcttgtt aaggaatcag 1320
gtttttttcta cctggtaaac attctctatt cttttctcaa aagattgttg taagaaaaaa 1380
```

1409

tgtaagmcaa aaaaaaaaaa aaaaaaaaa

<210> 194
<211> 441
<212> DNA
<213> Homo sapiens

<400> 194
cagatttcgg tagccatctc cctccaaata tgtctctttc tgctttctta gtgcccatta 60
tttccccttc tcctttcttc tgtcactgcc atctccttct tggtcttccc attgttcttt 120
aactggccgt aatgtggaat tgatatttac attttgatac ggttttttc ttggcctgtg 180
tacgggattg cctcatttcc tgctctgaat tttaaaatta gatattaaag ctgtcatatg 240
gtttcctcac aaaagtcaac aaagtccaaa caaaaatagt ttgccgtttt actttcatcc 300
attgaaaaag gaaattgtgc ctcttgcagc ctaggcaaag gacatttagt actatcgatt 360
ctttccaccc tcacgatgac ttgcggttct ctctgtagaa aagggatggc ctaagaaata 420
caactaaaaa aaaaaaaaaa a 441

<210> 195
<211> 707
<212> DNA
<213> Homo sapiens

<400> 195
cagaaaaata tttggaaaaa atataccact tcatagctaa gtcttacaga gaagaggatt 60
tgctaataaa acttaagttt tgaaaattaa gatgcaggta gagcttctga actaatgccc 120
acagctccaa ggaagacatg tcctatttag ttattcaaat acaagttgag ggcattgtga 180
ttaagcaaac aatatatttg ttagaacttt gtttttaaat tactgttcct tgacattact 240
tataaagagt ctctaacttt cgatttctaa aactatgtaa tacaaaagta tagtttcccc 300
atttgataaa aggccaatga tactgagtag gatatatgcg tatcatgcta cttcattcag 360
tgtgtctgtt tttaatacta ataaggcagt ttgacagaaa ttatttcttt gggactaagg 420
tgattatcat tttttttcccc ttcaaaattg tgctttaagt gctgataacc acaggcagat 480
tgcaaagaac tgataaggca acaaaagtag agaatttttag gatcaaaggc atgtaactga 540
aaggtaacaa cagtacataa gcgacaactg gggaaggcag cagtgaaaca tgtttgtggg 600
gttaagtgag tcattgtaaa taaggaattt gcacatttat tttctgtcga cgcggccgcc 660
actgtgctgg atatctgcag aattccacca cactggacta gtggatc 707

<210> 196
<211> 552
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 61, 129, 189, 222, 241, 278, 324, 338, 363, 408, 415, 463, 483
<223> n = A,T,C or G

<400> 196
tggccagcca gcctgatgtg gatggcttcc ttggggtggt gcttccctca agcccgaatt 60
ngtggacatc atcaatgcca aacaatgagc cccatccatt ttccctaccc ttcctgccaa 120
gccagggant aagcagccca gaagcccagt aactgccctt tccctgcata tgcttttgat 180
ggtgtcatnt gctccttcct gtggcctcat ccaaactgta tnttccttta ctgtttatat 240
nttcaccctg taatggttgg gaccaggcca atcccttntc cacttactat aatggttgga 300
actaaacgtc accaaggtgg cttntccttg gctgaganat ggaaggcgtg gtgggatttg 360

```
ctnctgggtt ccctaggccc tagtgagggc agaagagaaa ccatcctntc ccttnttaca 420
ccgtgaggcc aagatcccct cagaaggcag gagtgctgcc ctntcccatg gtgcccgtgc 480
ctntgtgctg tgtatgtgaa ccacccatgt gagggaataa acctggcact aggaaaaaaa 540
aaaaaaaaaa aa                                                       552
```

<210> 197
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 56, 58, 76
<223> n = A,T,C or G

<400> 197
```
ctccagagac aacttcgcgg tgtggtgaac tctctgagga aaaacacgtg cgtggnanca 60
agtgactgag acctanaaat ccaagcgttg gaggtcctga ggccagccta agtcgcttca 120
aaatggaacg aaggcgtttg cggggttcca ttcagagccg atacatcagc atgagtgtgt 180
ggacaagccc acggagactt gtggagctgg cagggcagag cctgctgaag gatgaggccc 240
tggccattgc ccgccctgga gttgctgccc agggagctct tcccgccact cttcatggca 300
gcctttgacg ggagacacag ccagaccctg aaggcaatgg tgcaggcctg gcccttcacc 360
tgcctccctc tgggagtgct gatgaaggga caacatcttc acctggagac cttcaaagct 420
gtgcttgatg gacttgatgt gctccttgc                                      449
```

<210> 198
<211> 606
<212> DNA
<213> Homo sapiens

<400> 198
```
tgagtttgcc cccttacccc catcccagtg aatatttgca attcctaaag acgtgttttg 60
attgtcacac ctgggtgggg aacatgctac tggcatctaa tgcatagagg gcagtaatgc 120
tgctaaacat cttttaacgc acaggacaga gccccacaaa agagaattat ctagccccaa 180
atgtccataa cactgctgtt gagaaaacct accgcaggat cttactgggc ttcataggta 240
agcttgcctt tgttctggct tctgtagata tataaaataa agacactgcc cagtccctcc 300
ctcaacgtcc cgagccaggg ctcaaggcaa ttccaataac agtagaatga acactaaata 360
ttgatttcaa aatctcagca actagaagaa tgaccaacca tcctggttgg cctgggactg 420
tcctagtttt agcattgaaa gtttcaggtt ccaggaaagc cctcaggcct gggctgctgg 480
tcaccctagc agctgaggga ctcttcaata cagaattagt ctttgtgcac tggagatgaa 540
tatactttaa tttgtaacat gtgaaaacat ctataaacat ctactgaagc ctgttcttgt 600
ctgcac                                                              606
```

<210> 199
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 29, 345
<223> n = A,T,C or G

<400> 199

```
ggcaactttt tgcggattgt tcttgcttnc aggctttgcg ctgcaaatcc agtgctacca 60
gtgtgaagaa ttccagctga acaacgactg ctcctccccc gagttcattg tgaattgcac 120
ggtgaacgtt caagacatgt gtcagaaaga agtgatggag caaagtgccg ggatcatgta 180
ccgcaagtcc tgtgcatcat cagcggcctg tctcatcgcc tctgccgggt accagtcctt 240
ctgctcccca gggaaactga actcagtttg catcagctgc tgcaacaccc ctctttgtaa 300
cgggccaagg cccaagaaaa ggggaagttc tgcctcggcc ctcangccat ggctccgcac 360
caccatcct                                                       369
```

<210> 200
<211> 55
<212> PRT
<213> Homo sapiens

<400> 200

```
Met Tyr Arg Asn Trp Ser Gly Cys Phe Gly Leu Gln Val Thr Leu Cys
1               5                   10                  15
His Thr Phe Glu Thr Arg Asp Leu Ser Arg Leu Ser Ser Asp Ser Gln
            20                  25                  30
Pro Thr Ser Asn Val Ser Gln Ser Ile Ser His Lys Val Leu Ser Phe
        35                  40                  45
Ser Gly Val Ile Val Thr Pro
    50                  55
```

<210> 201
<211> 67
<212> PRT
<213> Homo sapiens

<400> 201

```
Met Gln Leu Leu Ser Pro Asn Thr Lys Phe Thr Ser Cys Leu Ser Arg
1               5                   10                  15
Gln Arg Gly Asn Leu Val Phe Leu Gly Asp Leu Lys Gly Cys Ser Glu
            20                  25                  30
Leu Lys Asn Phe Gln Glu Leu Ile Asn Gln Ser Ala Leu Val His Pro
        35                  40                  45
Arg Val Asp Val Trp Trp Tyr Cys Gly Gly Pro Leu Leu Gly Thr Leu
    50                  55                  60
Pro Asn Asn
65
```

<210> 202
<211> 73
<212> PRT
<213> Homo sapiens

<400> 202

```
Met Thr Pro Glu Lys Leu Arg Thr Leu Cys Glu Ile Asp Trp Leu Thr
1               5                   10                  15
Leu Glu Val Gly Trp Leu Ser Glu Glu Ser Leu Glu Arg Ser Leu Val
            20                  25                  30
Ser Lys Val Trp His Lys Val Thr Cys Lys Pro Lys His Pro Asp Gln
        35                  40                  45
```

Phe Leu Tyr Ile Asp Ser Tyr Ser Trp Phe Arg Pro Leu Pro Pro Leu
   50   55   60

Pro Thr Val Val Lys Arg Thr Ala Ala
65   70

<210> 203
<211> 2008
<212> DNA
<213> Homo sapiens

<400> 203
ctccagagac aacttcgcgg tgtggtgaac tctctgagga aaaacacgtg cgtggtaaca 60
agtgactgag acctagaaat ccaagcgttg gaggtcctga ggccagccta agtcgcttca 120
aaatggaacg aaggcgtttg cggggttcca ttcagagccg atacatcagc atgagtgtgt 180
ggacaagccc acggagactt gtggagctgg cagggcagag cctgctgaag gatgaggccc 240
tggccattgc ccgccctgga gttgctgccc agggagctct tcccgccact cttcatggca 300
gcctttgacg ggagacacag ccagaccctg aaggcaatgg tgcaggcctg gcccttcacc 360
tgcctccctc tgggagtgct gatgaaggga caacatcttc acctggagac cttcaaagct 420
gtgcttgatg gacttgatgt gctccttgcc caggaggttc gccccaggag gtggaaactt 480
caagtgctgg atttacggaa gaactctcat caggacttct ggactgtatg gtctggaaac 540
agggccagtc tgtactcatt tccagagcca gaagcagctc agcccatgac aaagaagcga 600
aaagtagatg gtttgagcac agaggcagag cagcccttca ttccagtaga ggtgctcgta 660
gacctgttcc tcaaggaagg tgcctgtgat gaattgttct cctacctcat tgagaaagtg 720
aagcgaaaga aaaatgtact acgcctgtgc tgtaagaagc tgaagatttt tgcaatgccc 780
atgcaggata tcaagatgat cctgaaaatg gtgcagctgg actctattga agatttggaa 840
gtgacttgta cctggaagct acccaccttg gcgaaatttt ctccttacct gggccagatg 900
attaatctgc gtagactcct cctctcccac atccatgcat cttcctacat ttccccggag 960
aaggaagagc agtatatcgc ccagttcacc tctcagttcc tcagtctgca gtgcctgcag 1020
gctctctatg tggactcttt attttttcctt agaggccgcc tggatcagtt gctcaggcac 1080
gtgatgaacc ccttggaaac cctctcaata actaactgcc ggctttcgga aggggatgtg 1140
atgcatctgt cccagagtcc cagcgtcagt cagctaagtg tcctgagtct aagtggggtc 1200
atgctgaccg atgtaagtcc cgagcccctc caagctctgc tggagagagc ctctgccacc 1260
ctccaggacc tggtctttga tgagtgtggg atcacggatg atcagctcct tgccctcctg 1320
ccttccctga gccactgctc ccagcttaca accttaagct tctacgggaa ttccatctcc 1380
atatctgcct tgcagagtct cctgcagcac ctcatcgggc tgagcaatct gacccacgtg 1440
ctgtatcctg tccccctgga gagttatgag gacatccatg gtaccctcca cctggagagg 1500
cttgcctatc tgcatgccag gctcaggag ttgctgtgtg agttggggcg gcccagcatg 1560
gtctggctta gtgccaaccc ctgtcctcac tgtggggaca gaaccttcta tgacccggag 1620
cccatcctgt gcccctgttt catgcctaac tagctgggtg cacatatcaa atgcttcatt 1680
ctgcatactt ggacactaaa gccaggatgt gcatgcatct tgaagcaaca aagcagccac 1740
agtttcagac aaatgttcag tgtgagtgag gaaaacatgt tcagtgagga aaaaacattc 1800
agacaaatgt tcagtgagga aaaaaagggg aagttgggga taggcagatg ttgacttgag 1860
gagttaatgt gatctttggg gagatacatc ttatagagtt agaaatagaa tctgaatttc 1920
taaagggaga ttctggcttg ggaagtacat gtaggagtta atccctgtgt agactgttgt 1980
aaagaaactg ttgaaaaaaa aaaaaaaa 2008

<210> 204
<211> 923
<212> DNA
<213> Homo sapiens

<400> 204
tgagtttgcc cccttacccc catcccagtg aatatttgca attcctaaag acgtgttttg 60

```
attgtcacac ctgggtgggg aacatgctac tggcatctaa tgcatagagg gcagtaatgc 120
tgctaaacat ctttcaacgc acaggacaga gccccacaaa agagaattat ctagccccaa 180
atgtccataa cactgctgtt gagaaaacct accgcaggat cttactgggc ttcataggta 240
agcttgcctt tgttctggct tctgtagata tataaaataa agacactgcc cagtccctcc 300
ctcaacgtcc cgagccaggg ctcaaggcaa ttccaataac agtagaatga acactaaata 360
ttgatttcaa aatctcagca actagaagaa tgaccaacca tcctggttgg cctgggactg 420
tcctagtttt agcattgaaa gtttcaggtt ccaggaaagc cctcaggcct gggctgctgg 480
tcaccctagc agctgaggga ctcttcaata cagaattagt ctttgtgcac tggagatgaa 540
tatactttaa tttgtaacat gtgaaaacat ctataaacat ctactgaagc ctgttctgtc 600
tgcaccgaca ttttcattga gtacggattc ttcctaccag atacagctgc tctacaactt 660
tcgagggctg gtataaaact agcttttacc tattttaaa aattacatga atagtaaaaa 720
cttggattaa cccagtattc gggtatttc aatttccttg ggagcttaga ggacggacaa 780
ataaaaagat tatttcaaca tcaaatatat gctattgttt acatatgaag ataaccacat 840
atatgtataa attcaccgtt acttttagc aatactataa aatccaacag aaaaaaatag 900
catttactaa aaaaaaaaa aaa                                          923
```

<210> 205
<211> 1619
<212> DNA
<213> Homo sapiens

<400> 205

```
ggcaactttt tgcggattgt tcttgcttcc aggctttgcg ctgcaaatcc agtgctacca 60
gtgtgaagaa ttccagctga acaacgactg ctcctccccc gagttcattg tgaattgcac 120
ggtgaacgtt caagacatgt gtcagaaaga agtgatggag caaagtgccg ggatcatgta 180
ccgcaagtcc tgtgcatcat cagcggcctg tctcatcgcc tctgccgggt accagtcctt 240
ctgctcccca gggaaactga actcagtttg catcagctgc tgcaacaccc ctctttgtaa 300
cgggccaagg cccaagaaaa ggggaagttc tgcctcggcc ctcaggccag ggctccgcac 360
caccatcctg ttcctcaaat tagccctctt ctcggcacac tgctgaagct gaaggagatg 420
ccacccctc ctgcattgtt cttccagccc tcgcccccaa cccccacct ccctgagtga 480
gtttcttctg ggtgtccttt tattctgggt agggagcggg agtccgtgtt ctcttttgtt 540
cctgtgcaaa taatgaaaga gctcggtaaa gcattctgaa taaattcagc ctgactgaat 600
tttcagtatg tacttgaagg aaggaggtgg agtgaaagtt caccccatg tctgtgtaac 660
cggagtcaag gccaggctgg cagagtcagt ccttagaagt cactgaggtg ggcatctgcc 720
ttttgtaaag cctccagtgt ccattccatc cctgatgggg gcatagtttg agactgcaga 780
gtgagagtga cgtttctta gggctggagg gccagttccc actcaaggct ccctcgcttg 840
acattcaaac ttcatgctcc tgaaaaccat tctctgcagc agaattggct ggtttcgcgc 900
ctgagttggg ctctagtgac tcgagactca atgactggga cttagactgg ggctcggcct 960
cgctctgaaa agtgcttaag aaaatcttct cagttctcct tgcagaggac tggcgccggg 1020
acgcgaagag caacgggcgc tgcacaaagc gggcgctgtc ggtggtggag tgcgcatgta 1080
cgcgcaggcg cttctcgtgg ttggcgtgct gcagcgacag gcggcagcac agcaccttgc 1140
acgaacaccc gccgaaactg ctgcgaggac accgtgtaca ggagcgggtt gatgaccgag 1200
ctgaggtaga aaaacgtctc cgagaagggg aggaggatca tgtacgcccg gaagtaggac 1260
ctcgtccagt cgtgcttggg tttggccgca gccatgatcc tccgaatctg gttgggcatc 1320
cagcatacgg ccaatgtcac aacaatcagc cctgggcaga cacgagcagg agggagagac 1380
agagaaaaga aaaacacagc atgagaacac agtaaatgaa taaaaccata aaatatttag 1440
cccctctgtt ctgtgcttac tggccaggaa atggtaccaa tttttcagtg ttggacttga 1500
cagcttcttt tgccacaagc aagagagaat ttaacactgt ttcaaacccg ggggagttgg 1560
ctgtgttaaa gaaagaccat taaatgcttt agacagtgta aaaaaaaaa aaaaaaaa    1619
```

<210> 206
<211> 2364
<212> DNA
<213> Homo sapiens

<400> 206
```
atgcagcatc accaccatca ccacttctcc gacgagaccc tggacaaagt gcccaagtca 60
gagggctact gtagccgtat cctgcgcgcc cagggcacgc ggcgcgaggg ctacaccgag 120
ttcagcctcc gcgtggaggg cgaccccgac ttctacaagc cgggaaccag ctaccgcgta 180
acactttcag ctgctcctcc ctcctacttc agaggattca cattaattgc cctcagagag 240
aacagagagg gtgataagga agaagaccat gctgggacct tccagatcat agacgaagaa 300
gaaactcagt ttatgagcaa ttgccctgtt gcagtcactg aaagcactcc acggaggagg 360
acccggatcc aggtgttttg gatagcacca ccagcgggaa caggctgcgt gattctgaag 420
gccagcatcg tacaaaaacg cattatttat tttcaagatg agggctctct gaccaagaaa 480
ctttgtgaac aagattccac atttgatggg gtgactgaca aacccatctt agactgctgt 540
gcctgcggaa ctgccaagta cagactcaca tttttatggga attggtccga gaagacacac 600
ccaaaggatt accctcgtcg ggccaaccac tggtctgcga tcatcggagg atcccactcc 660
aagaattatg tactgtggga atatggagga tatgccagcg aaggcgtcaa acaagttgca 720
gaattgggct cacccgtgaa aatggaggaa gaaattcgac aacagagtga tgaggtcctc 780
accgtcatca aagccaaagc ccagtggcca gcctggcagc ctctcaacgt gagagcagca 840
ccttcagctg aattttccgt ggacagaacg cgccatttaa tgtccttcct gaccatgatg 900
ggccctagtc ccgactggaa cgtaggctta tctgcagaag atctgtgcac caaggaatgt 960
ggctgggtcc agaaggtggt gcaagacctg attccctggg acgctggcac cgacagcggg 1020
gtgacctatg agtcacccaa caaacccacc attccccagg agaaaatccg gcccctgacc 1080
agcctggacc atcctcagag tcctttctat gacccagagg gtgggtccat cactcaagta 1140
gccagagttg tcatcgagag aatcgcacgg aagggtgaac aatgcaatat tgtacctgac 1200
aatgtcgatg atattgtagc tgacctggct ccagaagaga aagatgaaga tgacacccct 1260
gaaacctgca tctactccaa ctggtcccca tggtccgcct gcagctcctc cacctgtgac 1320
aaaggcaaga ggatgcgaca gcgcatgctg aaagcacagc tggacctcag cgtcccctgc 1380
cctgacaccc aggacttcca gccctgcatg ggccctggct gcagtgacga agacggctcc 1440
acctgcacca tgtccgagtg gatcacctgg tcgccctgca gcatctcctg cggcatgggc 1500
atgaggtccc gggagaggta tgtgaagcag ttcccggagg acggctccgt gtgcacgctg 1560
cccactgagg aaacggagaa gtgcacggtc aacgaggagt gctctcccag cagctgcctg 1620
atgaccgagt ggggcgagtg ggacgagtgc agcgccacct gcggcatggg catgaagaag 1680
cggcaccgca tgatcaagat gaacccc gca gatggctcca tgtgcaaagc cgagacatca 1740
caggcagaga gtgcatgat gccagagtgc cacaccatcc catgcttgct gtccccatgg 1800
tccgagtgga gtgactgcag cgtgacctgc gggaagggca tgcgaacccg acagcggatg 1860
ctcaagtctc tggcagaact tggagactgc aatgaggatc tggagcaggt ggagaagtgc 1920
atgctccctg aatgccccat tgactgtgag ctcaccgagt ggtcccagtg gtcggaatgt 1980
aacaagtcat gtgggaaagg ccacgtgatt cgaaccccgga tgatccaaat ggagcctcag 2040
tttggaggtg caccctgccc agagactgtg cagcgaaaaa agtgccgcat ccgaaaatgc 2100
cttcgaaatc catccatcca aaagctacgc tggagggagg cccgagagag ccggcggagt 2160
gagcagctga aggaagagtc tgaaggggag cagttcccag gttgtaggat gcgcccatgg 2220
acggcctggt cagaatgcac caaactgtgc ggaggtggaa ttcaggaacg ttacatgact 2280
gtaaagaaga gattcaaaag ctcccagttt accagctgca aagacaagaa ggagatcaga 2340
gcatgcaatg ttcatccttg ttag 2364
```

<210> 207
<211> 787
<212> PRT
<213> Homo sapiens

<400> 207
```
Met Gln His His His His His His Phe Ser Asp Glu Thr Leu Asp Lys
1                   5                   10                  15
Val Pro Lys Ser Glu Gly Tyr Cys Ser Arg Ile Leu Arg Ala Gln Gly
                20                  25                  30
Thr Arg Arg Glu Gly Tyr Thr Glu Phe Ser Leu Arg Val Glu Gly Asp
```

```
           35                    40                    45
Pro Asp Phe Tyr Lys Pro Gly Thr Ser Tyr Arg Val Thr Leu Ser Ala
      50                    55                    60
Ala Pro Pro Ser Tyr Phe Arg Gly Phe Thr Leu Ile Ala Leu Arg Glu
65                    70                    75                    80
Asn Arg Glu Gly Asp Lys Glu Glu Asp His Ala Gly Thr Phe Gln Ile
                  85                    90                    95
Ile Asp Glu Glu Glu Thr Gln Phe Met Ser Asn Cys Pro Val Ala Val
                  100                   105                   110
Thr Glu Ser Thr Pro Arg Arg Arg Thr Arg Ile Gln Val Phe Trp Ile
            115                   120                   125
Ala Pro Pro Ala Gly Thr Gly Cys Val Ile Leu Lys Ala Ser Ile Val
      130                   135                   140
Gln Lys Arg Ile Ile Tyr Phe Gln Asp Glu Gly Ser Leu Thr Lys Lys
145                   150                   155                   160
Leu Cys Glu Gln Asp Ser Thr Phe Asp Gly Val Thr Asp Lys Pro Ile
                  165                   170                   175
Leu Asp Cys Cys Ala Cys Gly Thr Ala Lys Tyr Arg Leu Thr Phe Tyr
                  180                   185                   190
Gly Asn Trp Ser Glu Lys Thr His Pro Lys Asp Tyr Pro Arg Arg Ala
            195                   200                   205
Asn His Trp Ser Ala Ile Ile Gly Gly Ser His Ser Lys Asn Tyr Val
      210                   215                   220
Leu Trp Glu Tyr Gly Gly Tyr Ala Ser Glu Gly Val Lys Gln Val Ala
225                   230                   235                   240
Glu Leu Gly Ser Pro Val Lys Met Glu Glu Glu Ile Arg Gln Gln Ser
                  245                   250                   255
Asp Glu Val Leu Thr Val Ile Lys Ala Lys Ala Gln Trp Pro Ala Trp
                  260                   265                   270
Gln Pro Leu Asn Val Arg Ala Ala Pro Ser Ala Glu Phe Ser Val Asp
            275                   280                   285
Arg Thr Arg His Leu Met Ser Phe Leu Thr Met Met Gly Pro Ser Pro
      290                   295                   300
Asp Trp Asn Val Gly Leu Ser Ala Glu Asp Leu Cys Thr Lys Glu Cys
305                   310                   315                   320
Gly Trp Val Gln Lys Val Val Gln Asp Leu Ile Pro Trp Asp Ala Gly
                  325                   330                   335
Thr Asp Ser Gly Val Thr Tyr Glu Ser Pro Asn Lys Pro Thr Ile Pro
                  340                   345                   350
Gln Glu Lys Ile Arg Pro Leu Thr Ser Leu Asp His Pro Gln Ser Pro
            355                   360                   365
Phe Tyr Asp Pro Glu Gly Gly Ser Ile Thr Gln Val Ala Arg Val Val
      370                   375                   380
Ile Glu Arg Ile Ala Arg Lys Gly Glu Gln Cys Asn Ile Val Pro Asp
385                   390                   395                   400
Asn Val Asp Asp Ile Val Ala Asp Leu Ala Pro Glu Glu Lys Asp Glu
                  405                   410                   415
Asp Asp Thr Pro Glu Thr Cys Ile Tyr Ser Asn Trp Ser Pro Trp Ser
                  420                   425                   430
Ala Cys Ser Ser Ser Thr Cys Asp Lys Gly Lys Arg Met Arg Gln Arg
            435                   440                   445
Met Leu Lys Ala Gln Leu Asp Leu Ser Val Pro Cys Pro Asp Thr Gln
      450                   455                   460
Asp Phe Gln Pro Cys Met Gly Pro Gly Cys Ser Asp Glu Asp Gly Ser
```

```
465                   470                   475                   480
Thr Cys Thr Met Ser Glu Trp Ile Thr Trp Ser Pro Cys Ser Ile Ser
                485                   490                       495
Cys Gly Met Gly Met Arg Ser Arg Glu Arg Tyr Val Lys Gln Phe Pro
                500                   505                       510
Glu Asp Gly Ser Val Cys Thr Leu Pro Thr Glu Glu Thr Glu Lys Cys
            515                   520                   525
Thr Val Asn Glu Glu Cys Ser Pro Ser Ser Cys Leu Met Thr Glu Trp
        530                   535                   540
Gly Glu Trp Asp Glu Cys Ser Ala Thr Cys Gly Met Gly Met Lys Lys
545                   550                   555                   560
Arg His Arg Met Ile Lys Met Asn Pro Ala Asp Gly Ser Met Cys Lys
                565                   570                   575
Ala Glu Thr Ser Gln Ala Glu Lys Cys Met Met Pro Glu Cys His Thr
                580                   585                   590
Ile Pro Cys Leu Leu Ser Pro Trp Ser Glu Trp Ser Asp Cys Ser Val
            595                   600                   605
Thr Cys Gly Lys Gly Met Arg Thr Arg Gln Arg Met Leu Lys Ser Leu
        610                   615                   620
Ala Glu Leu Gly Asp Cys Asn Glu Asp Leu Glu Gln Val Glu Lys Cys
625                   630                   635                   640
Met Leu Pro Glu Cys Pro Ile Asp Cys Glu Leu Thr Glu Trp Ser Gln
                645                   650                       655
Trp Ser Glu Cys Asn Lys Ser Cys Gly Lys Gly His Val Ile Arg Thr
            660                   665                   670
Arg Met Ile Gln Met Glu Pro Gln Phe Gly Gly Ala Pro Cys Pro Glu
            675                   680                   685
Thr Val Gln Arg Lys Lys Cys Arg Ile Arg Lys Cys Leu Arg Asn Pro
        690                   695                   700
Ser Ile Gln Lys Leu Arg Trp Arg Glu Ala Arg Glu Ser Arg Arg Ser
705                   710                   715                   720
Glu Gln Leu Lys Glu Glu Ser Glu Gly Glu Gln Phe Pro Gly Cys Arg
                725                   730                       735
Met Arg Pro Trp Thr Ala Trp Ser Glu Cys Thr Lys Leu Cys Gly Gly
            740                   745                   750
Gly Ile Gln Glu Arg Tyr Met Thr Val Lys Lys Arg Phe Lys Ser Ser
        755                   760                   765
Gln Phe Thr Ser Cys Lys Asp Lys Lys Glu Ile Arg Ala Cys Asn Val
        770                   775                   780
His Pro Cys
785
```

<210> 208
<211> 1362
<212> DNA
<213> Homo sapiens

<400> 208
atggcttcac ccagcctccc gggcagtgac tgctcccaaa tcattgatca cagtcatgtc 60
cccgagtttg aggtggccac ctggatcaaa atcaccctta ttctggtgta cctgatcatc 120
ttcgtgatgg gccttctggg gaacagcgcc accattcggg tcacccaggt gctgcagaag 180
aaaggatact tgcagaagga ggtgacagac cacatggtga gtttggcttg ctcggacatc 240
ttggtgttcc tcatcggcat gcccatggag ttctacagca tcatctggaa tcccctgacc 300

```
acgtccagct acaccctgtc ctgcaagctg cacactttcc tcttcgaggc ctgcagctac 360
gctacgctgc tgcacgtgct gacactcagc tttgagcgct acatcgccat ctgtcacccc 420
ttcaggtaca aggctgtgtc gggaccttgc caggtgaagc tgctgattgg cttcgtctgg 480
gtcacctccg ccctggtggc actgcccttg ctgtttgcca tgggtactga gtaccccctg 540
gtgaacgtgc ccagccaccg gggtctcact tgcaaccgct ccagcacccg ccaccacgag 600
cagcccgaga cctccaatat gtccatctgt accaacctct ccagccgctg gaccgtgttc 660
cagtccagca tcttcggcgc cttcgtggtc tacctcgtgg tcctgctctc cgtagccttc 720
atgtgctgga acatgatgca ggtgctcatg aaaagccaga agggctcgct ggccgggggc 780
acgcggcctc cgcagctgag gaagtccgag agcgaagaga gcaggaccgc caggaggcag 840
accatcatct tcctgaggct gattgttgtg acattggccg tatgctggat gcccaaccag 900
attcggagga tcatggctgc ggccaaaccc aagcacgact ggacgaggtc ctacttccgg 960
gcgtacatga tcctcctccc cttctcggag acgttttctt acctcagctc ggtcatcaac 1020
ccgctcctgt acacggtgtc ctcgcagcag tttcggcggg tgttcgtgca ggtgctgtgc 1080
tgccgcctgt cgctgcagca cgccaaccac gagaagcgcc tgcgcgtaca tgcgcactcc 1140
accaccgaca gcgcccgctt tgtgcagcgc ccgttgctct cgcgtcccg gcgccagtcc 1200
tctgcaagga gaactgagaa gattttctta agcacttttc agagcgaggc cgagccccag 1260
tctaagtccc agtcattgag tctcgagtca ctagagccca actcaggcgc gaaaccagcc 1320
aattctgctg cagagaatgg ttttcaggag catgaagttt ga                   1362
```

<210> 209
<211> 453
<212> PRT
<213> Homo sapiens

<400> 209

```
Met Ala Ser Pro Ser Leu Pro Gly Ser Asp Cys Ser Gln Ile Ile Asp
1               5                   10                  15
His Ser His Val Pro Glu Phe Glu Val Ala Thr Trp Ile Lys Ile Thr
            20                  25                  30
Leu Ile Leu Val Tyr Leu Ile Ile Phe Val Met Gly Leu Leu Gly Asn
        35                  40                  45
Ser Ala Thr Ile Arg Val Thr Gln Val Leu Gln Lys Lys Gly Tyr Leu
    50                  55                  60
Gln Lys Glu Val Thr Asp His Met Val Ser Leu Ala Cys Ser Asp Ile
65                  70                  75                  80
Leu Val Phe Leu Ile Gly Met Pro Met Glu Phe Tyr Ser Ile Ile Trp
                85                  90                  95
Asn Pro Leu Thr Thr Ser Ser Tyr Thr Leu Ser Cys Lys Leu His Thr
            100                 105                 110
Phe Leu Phe Glu Ala Cys Ser Tyr Ala Thr Leu Leu His Val Leu Thr
        115                 120                 125
Leu Ser Phe Glu Arg Tyr Ile Ala Ile Cys His Pro Phe Arg Tyr Lys
    130                 135                 140
Ala Val Ser Gly Pro Cys Gln Val Lys Leu Leu Ile Gly Phe Val Trp
145                 150                 155                 160
Val Thr Ser Ala Leu Val Ala Leu Pro Leu Leu Phe Ala Met Gly Thr
                165                 170                 175
Glu Tyr Pro Leu Val Asn Val Pro Ser His Arg Gly Leu Thr Cys Asn
            180                 185                 190
Arg Ser Ser Thr Arg His His Glu Gln Pro Glu Thr Ser Asn Met Ser
        195                 200                 205
Ile Cys Thr Asn Leu Ser Ser Arg Trp Thr Val Phe Gln Ser Ser Ile
    210                 215                 220
Phe Gly Ala Phe Val Val Tyr Leu Val Val Leu Leu Ser Val Ala Phe
```

```
225                     230                     235                     240
Met Cys Trp Asn Met Met Gln Val Leu Met Lys Ser Gln Lys Gly Ser
                245                     250                     255
Leu Ala Gly Gly Thr Arg Pro Pro Gln Leu Arg Lys Ser Glu Ser Glu
                260                     265                     270
Glu Ser Arg Thr Ala Arg Arg Gln Thr Ile Ile Phe Leu Arg Leu Ile
            275                     280                     285
Val Val Thr Leu Ala Val Cys Trp Met Pro Asn Gln Ile Arg Arg Ile
        290                     295                     300
Met Ala Ala Ala Lys Pro Lys His Asp Trp Thr Arg Ser Tyr Phe Arg
305                     310                     315                     320
Ala Tyr Met Ile Leu Leu Pro Phe Ser Glu Thr Phe Phe Tyr Leu Ser
                325                     330                     335
Ser Val Ile Asn Pro Leu Leu Tyr Thr Val Ser Ser Gln Gln Phe Arg
                340                     345                     350
Arg Val Phe Val Gln Val Leu Cys Cys Arg Leu Ser Leu Gln His Ala
        355                     360                     365
Asn His Glu Lys Arg Leu Arg Val His Ala His Ser Thr Thr Asp Ser
    370                     375                     380
Ala Arg Phe Val Gln Arg Pro Leu Leu Phe Ala Ser Arg Arg Gln Ser
385                     390                     395                     400
Ser Ala Arg Arg Thr Glu Lys Ile Phe Leu Ser Thr Phe Gln Ser Glu
                405                     410                     415
Ala Glu Pro Gln Ser Lys Ser Gln Ser Leu Ser Leu Glu Ser Leu Glu
                420                     425                     430
Pro Asn Ser Gly Ala Lys Pro Ala Asn Ser Ala Ala Glu Asn Gly Phe
            435                     440                     445
Gln Glu His Glu Val
        450
```

```
<210> 210
<211> 625
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 607
<223> n = A,T,C or G

<400> 210
agttctcctt gcagaggact ggcgccggga cgcgaagagc aacgggcgct gcacaaagcg 60
ggcgctgtcg gtggtggagt gcgcatgtac gcgcaggcgc ttctcgtggt tggcgtgctg 120
cagcgacagg cggcagcaca gcacctgcac gaacacccgc cgaaactgct gcgaggacac 180
cgtgtacagg agcgggttga tgaccgagct gaggtagaaa aacgtctccg agaaggggag 240
gaggatcatg tacgcccgga agtaggacct cgtccagtcg tgcttgggtt tggccgcagc 300
catgatcctc cgaatctggt tgggcatcca gcatacggcc aatgtcacaa caatcagccc 360
tgggcagaca cgagcaggag ggagagacag agaaaagaaa aacacagcat gagaacacag 420
taaatgaata aaaccataaa atatttagcc cctctgttct gtgcttactg gccaggaaat 480
ggtaccaatt tttcagtgtt ggacttgaca gcttcttttg ccacaagcaa gagagaattt 540
aacactgttt caaacccggg ggagttggct gtgttaaaga aagaccatta aatgctttag 600
acagtgnaaa aaaaaaaaa aaaaa                                      625
```

<210> 211
<211> 1619
<212> DNA
<213> Homo sapiens

<400> 211
ggcaacttt tgcggattgt tcttgcttcc aggctttgcg ctgcaaatcc agtgctacca 60
gtgtgaagaa ttccagctga acaacgactg ctcctccccc gagttcattg tgaattgcac 120
ggtgaacgtt caagacatgt gtcagaaaga agtgatggag caaagtgccg ggatcatgta 180
ccgcaagtcc tgtgcatcat cagcggcctg tctcatcgcc tctgccgggt accagtcctt 240
ctgctcccca gggaaactga actcagtttg catcagctgc tgcaacaccc ctctttgtaa 300
cgggccaagg cccaagaaaa ggggaagttc tgcctcggcc ctcaggccag ggctccgcac 360
caccatcctg ttcctcaaat tagccctctt ctcggcacac tgctgaagct gaaggagatg 420
ccaccccctc ctgcattgtt cttccagccc tcgcccccaa ccccccacct ccctgagtga 480
gtttcttctg ggtgtccttt tattctgggt agggagcggg agtccgtgtt ctcttttgtt 540
cctgtgcaaa taatgaaaga gctcggtaaa gcattctgaa taaattcagc ctgactgaat 600
tttcagtatg tacttgaagg aaggaggtgg agtgaaagtt caccccatg tctgtgtaac 660
cggagtcaag gccaggctgg cagagtcagt ccttagaagt cactgaggtg ggcatctgcc 720
ttttgtaaag cctccagtgt ccattccatc cctgatgggg gcatagtttg agactgcaga 780
gtgagagtga cgtttctta gggctggagg gccagttccc actcaaggct ccctcgcttg 840
acattcaaac ttcatgctcc tgaaaaccat tctctgcagc agaattggct ggtttcgcgc 900
ctgagttggg ctctagtgac tcgagactca atgactggga cttagactgg ggctcggcct 960
cgctctgaaa agtgcttaag aaaatcttct cagttctcct tgcagaggac tggcgccggg 1020
acgcgaagag caacgggcgc tgcacaaagc gggcgctgtc ggtggtggag tgcgcatgta 1080
cgcgcaggcg cttctcgtgg ttggcgtgct gcagcgacag gcggcagcac agcaccttgc 1140
acgaacaccc gccgaaactg ctgcgaggac accgtgtaca ggagcgggtt gatgaccgag 1200
ctgaggtaga aaaacgtctc cgagaagggg aggaggatca tgtacgcccg gaagtaggac 1260
ctcgtccagt cgtgcttggg tttggccgca gccatgatcc tccgaatctg gttgggcatc 1320
cagcatacgg ccaatgtcac aacaatcagc cctgggcaga cacgagcagg agggagagac 1380
agagaaaaga aaaacacagc atgagaacac agtaaatgaa taaaaccata aaatatttag 1440
cccctctgtt ctgtgcttac tggccaggaa atggtaccaa tttttcagtg ttggacttga 1500
cagcttcttt tgccacaagc aagagagaat ttaacactgt ttcaaacccg ggggagttgg 1560
ctgtgttaaa gaaagaccat taaatgcttt agacagtgta aaaaaaaaaa aaaaaaaaa 1619

<210> 212
<211> 1010
<212> DNA
<213> Homo sapiens

<400> 212
ccgcagccgg gagcccgagc gcgggcgatg caggctccgc gagcggcacc tgcggctcct 60
ctaagctacg accgtcgtct ccgctggcag cagctgcggg ccccagcagc ctcggcagcc 120
acagccgctg cagcctgggg cagcctccgc tgctgtcgcc tcctctgatg cgcttgccct 180
ctccctggcc ccgggactcc gggagaatgt gggtcctagg catcgcggca actttttgcg 240
gattgttctt gcttccaagg ctttgcgctg caaatccagt gctaccagtg tgaagaattc 300
cagctgaaca acgactgctc ctcccccgag ttcattgtga attgcacggt gaacgttcaa 360
gacatgtgtc agaaagaagt gatggagcaa agtgccggga tcatgtaccg caagtcctgt 420
gcatcatcag cggcctgtct catcgcctct gccgggtacc agtccttctg ctccccaggg 480
aaactgaact cagtttgcat cagctgctgc aacaccctc tttgtaaccg gccaaggcc 540
caagaaaagg ggaagttctg cctcggccct caggccaggg ctccgaacca ccatcctgtc 600
cctcaaatta agccctactt ctcggcacac tgctggaagc ttgaagggag aaggcaccca 660
ctcctgcata gtccatccag gcctcgcccc acacacccca ctccctgaga gagcacgccc 720
agggagacca aaaaccggga taggcaacgg accccagac accacaaggg acccgaggac 780
aaagacgcag acaactcgcg aaagccaccc acgaatacaa cggcccgaac acagatataa 840

```
cgcacgagcc ccgaccgaca agagaagaag cagaagaaac acccacagac agaaacagac 900
accagcaaca agcgaaaaca gcaaaacgac actagcgaga caccacctgc acacaacacc 960
acagcccaac acagaggaca cgacaacaaa gagacagcac caacgacgaa            1010
```

```
<210> 213
<211> 480
<212> DNA
<213> Homo sapiens
```

```
<400> 213
gccaactccg gaggctctgg tgctcggccc gggagcgcga gcgggaggag cagagacccg 60
cagccgggag cccgagcgcg ggcgatgcag gctccgcgag cggcacctgc ggctcctcta 120
agctacgacc gtcgtctccg cggcagcagc gcgggcccca gcagcctcgg cagccacagc 180
cgctgcagcc ggggcagcct ccgctgctgt cgcctcctct gatgcgcttg ccctctcccg 240
gccccgggac tccgggagaa tgtgggtcct aggcatcgcg gcaacttttt gcggattgtt 300
cttgcttcca ggctttgcgc tgcaaatcca gtgctaccag tgtgaagaat tccagctgaa 360
caacgactgc tcctcccccg agttcattgt gaattgcacg gtgaacgttc aagacatgtg 420
tgagaaagaa gtgatggagc aaagtgccgg gatcatgtac cgcaagtcct gtgcatgatc 480
```

```
<210> 214
<211> 1897
<212> DNA
<213> Homo sapiens
```

```
<400> 214
gccaactccg gaggctctgg tgctcggccc gggagcgcga gcgggaggag cagagacccg 60
cagccgggag cccgagcgcg ggcgatgcag gctccgcgag cggcacctgc ggctcctcta 120
agctacgacc gtcgtctccg cggcagcagc gcgggcccca gcagcctcgg cagccacagc 180
cgctgcagcc ggggcagcct ccgctgctgt cgcctcctct gatgcgcttg ccctctcccg 240
gccccgggac tccgggagaa tgtgggtcct aggcatcgcg gcaacttttt gcggattgtt 300
cttgcttcca ggctttgcgc tgcaaatcca gtgctaccag tgtgaagaat tccagctgaa 360
caacgactgc tcctcccccg agttcattgt gaattgcacg gtgaacgttc aagacatgtg 420
tcagaaagaa gtgatggagc aaagtgccgg gatcatgtac cgcaagtcct gtgcatcatc 480
agcggcctgt ctcatcgcct ctgccgggta ccagtccttc tgctccccag ggaaactgaa 540
ctcagtttgc atcagctgct gcaacacccc tctttgtaac gggccaaggc ccaagaaaag 600
gggaagttct gcctcggccc tcaggccagg gctccgcacc accatcctgt tcctcaaatt 660
agccctcttc tcggcacact gctgaagctg aaggagatgc caccccctcc tgcattgttc 720
ttccagccct cgcccccaac cccccacctc cctgagtgag tttcttctgg gtgtcctttt 780
attctgggta gggagcggga gtccgtgttc tcttttgttc ctgtgcaaat aatgaaagag 840
ctcggtaaag cattctgaat aaattcagcy tgactgaatt ttcagtatgt acttgaagga 900
aggaggtgga gtgaaagttc accccccatgt ctgtgtaacc ggagtcaagg ccaggctggc 960
agagtcwgtc cttagaagtc actgaggtgg gcatctgcct tttgtaaagc ctccagtgtc 1020
cattccatcc ctgatggggg catagtttga gactgcagag tgagagtgac gttttcttag 1080
ggctggaggg ccagttccca ctcaaggctc cctcgcttga cattcaaact tcatgctcct 1140
gaaaaccatt ctctgcagca gaattggctg gtttcgcgcc tgagttgggc tctagtgact 1200
cgagactcaa tgactgggac ttagactggg gctcggcctc gctctgaaaa gtgcttaaga 1260
aaatcttctc agttctcctt gcagaggact ggcgccggga cgcgaagagc aacgggcgct 1320
gcacaaagcg ggcgctgtcg gtggtggagt gcgcatgtac gcgcaggcgc ttctcgtggt 1380
tggcgtgctg cagcgacagg cggcagcaca gcacctgcac gaacacccgc cgaaactgct 1440
gcgaggacac cgtgtacagg agcgggttga tgaccgagct gaggtagaaa aacgtctccg 1500
agaaggggag gaggatcatg tacgcccgga agtaggacct cgtccagtcg tgcttgggtt 1560
tggccgcagc catgatcctc cgaatctggt tgggcatcca gcatacggcc aatgtcacaa 1620
caatcagccc tgggcagaca cgagcaggag ggagagacag agaaaagaaa aacacagcat 1680
```

```
gagaacacag taaatgaata aaaccataaa atatttagcc cctctgttct gtgcttactg 1740
gccaggaaat ggtaccaatt tttcagtgtt ggacttgaca gcttcttttg ccacaagcaa 1800
gagagaattt aacactgttt caaacccggg ggagttggct gtgttaaaga aagaccatta 1860
aatgctttag acagtgtaaa aaaaaaaaaa aaaaaaa                           1897
```

<210> 215
<211> 141
<212> PRT
<213> Homo sapiens

<400> 215

```
Met Trp Val Leu Gly Ile Ala Ala Thr Phe Cys Gly Leu Phe Leu Leu
1               5                   10                  15
Pro Gly Phe Ala Leu Gln Ile Gln Cys Tyr Gln Cys Glu Glu Phe Gln
            20                  25                  30
Leu Asn Asn Asp Cys Ser Ser Pro Glu Phe Ile Val Asn Cys Thr Val
        35                  40                  45
Asn Val Gln Asp Met Cys Gln Lys Glu Val Met Glu Gln Ser Ala Gly
    50                  55                  60
Ile Met Tyr Arg Lys Ser Cys Ala Ser Ser Ala Ala Cys Leu Ile Ala
65                  70                  75                  80
Ser Ala Gly Tyr Gln Ser Phe Cys Ser Pro Gly Lys Leu Asn Ser Val
                85                  90                  95
Cys Ile Ser Cys Cys Asn Thr Pro Leu Cys Asn Gly Pro Arg Pro Lys
            100                 105                 110
Lys Arg Gly Ser Ser Ala Ser Ala Leu Arg Pro Gly Leu Arg Thr Thr
            115                 120                 125
Ile Leu Phe Leu Lys Leu Ala Leu Phe Ser Ala His Cys
    130                 135                 140
```